

KDK-3

EANDC(OR) 139 "A"

INDC(SWD) 6/G

REQUESTS FOR NEUTRON DATA  
MEASUREMENTS (SWEDEN)

DECEMBER 1973

SWEDISH NUCLEAR DATA COMMITTEE,  
STOCKHOLM (SWEDEN)

Requests for neutron data measurements (Sweden)

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This list replaces the Swedish Request List for Neutron Data Measurements, October 1971, EANDC(OR)-113 "A". The reference numbers (Ref) refer to WRENDA 73, INDC(SEC)-32/U. The status of the requests (new, maintained, withdrawn) are given in a special column. The new and withdrawn requests are also separately listed in appendix I. A list of the requestors are given in appendix II.

No	Ref [Reg]	Nuclide	Quantity	Energy	Accuracy %	Priority	Lab	Requestor	Comments
	61 [2321]	C	DIFF.ELASTIC	0.1-15 MeV	3	2	AE	Häggbloom Fast critical systems	Maintained
	67 [81]		DIFF.ELASTIC	8-14 MeV	10		FOA	Zetterström Energy resolution 0.2 MeV Shielding	Maintained
	69 [83]		EMISS.XSECT (ENERGY)	8-14 MeV	10		FOA	Zetterström Energy resolution 0.2 MeV Shielding	Maintained
	80 [100]		DIFF.ELASTIC	8-14 MeV	10		FOA	Zetterström Energy resolution 0.2 MeV Shielding	Maintained
	74 [2322]		DIFF.ELASTIC	0.1-15 MeV			AE	Häggbloom Fast reactor calculations	Maintained
	86 [102]		EMISS.XSECT energy	8-14 MeV	10		FOA	Zetterström Energy resolution 0.2 MeV	Maintained
	106 [2323]	<sup>23</sup> Na	DIFF.INELAST energy, angle	TR-15 MeV	10		AE	Häggbloom For fast reactor calculations	Maintained
	251 [2324]	Fe	DIFF.INELAST	1.5-15 MeV	10		AE	Häggbloom Fast reactor calculations	Maintained
	259 [2325]	Fe	N, GAMMA	1eV-1 MeV	10		AE	Häggbloom Fast reactor calculations	Maintained

No	Ref [Reg]	Nuclide	Quantity	Energy	Accuracy %	Priority	Lab	Requestor	Comments
10	265 [2326]	Fe	N, PROTON	TR-15 Mev	10	2	AE	Häggbloom Fast reactor calculations	Maintained
11	New request	<sup>155</sup> Gd	N, GAMMA	0-10 eV	3	2	AE	Häggbloom Thermal reactor calc.	Maintained
12	New request	<sup>155</sup> Gd	N, GAMMA	10 eV-10 keV	10	2	AE	Häggbloom Thermal reactor calc.	
13	New request	<sup>157</sup> Gd	N, GAMMA	0-10 eV	3	2	AE	Häggbloom Thermal reactor calc.	
14	New request	<sup>157</sup> Gd	N, GAMMA	10 eV-10 keV	10	2	AE	Häggbloom Thermal reactor calc.	
15	894 [769]	<sup>235</sup> U	TOTINELASTIC	TR-15 MeV	10	2	AE	Häggbloom Fast critical systems	Energy range, accuracy changed
16	[1355]	<sup>235</sup> U	FISSION	0.2-500 keV	2	2	AE	Häggbloom Fast reactor calculations	Energy range, accuracy changed Not in WRENDA 73.
17	New request	<sup>235</sup> U	N, GAMMA	0.2-500 keV	3	2	AE	Häggbloom Fast reactor calculations	
18	989 [1356]	<sup>238</sup> U	RESON PARAM	2-5 keV	3	2	AE	Häggbloom Fast reactor calculations 3% for $\Gamma_n$	Maintained

No	Ref [Reg]	Nuclide	Quantity	Energy	Accuracy %	Priority	Lab	Requestor	Comments
19	998 [843]	<sup>238</sup> U	TOTINELASTIC	80-500 keV	< 10	2	AE	Häggbloom Fast reactor calculations	Energy range, accuracy changed
20	1039 [866]	<sup>238</sup> U	N, GAMMA	5-1000 keV	3	2	AE	Häggbloom Fast reactor calculations	Energy range, accuracy changed
21	1074 [1357]	<sup>239</sup> Pu	RESON PARAM	0.25-1 keV	3	2	AE	Häggbloom Fast reactor calculations	Accuracy changed
22	New request	<sup>239</sup> Pu	FISSION	1-500 keV	2	2	AE	Häggbloom Fast reactor calculations	
23	New request	<sup>239</sup> Pu	FISSION	500keV-5MeV	5	2	AE	Häggbloom Fast reactor calculations	
24	1159 [971]	<sup>239</sup> Pu	N, GAMMA	1-500 keV	3	2	AE	Häggbloom Fast reactor calculations	Quantity, energy range, priority changed
25	New request	<sup>240</sup> Pu	FISSION	TR-5 MeV	10	2	AE	Häggbloom Fast reactor calculations	
26	1198 [1358]	<sup>240</sup> Pu	N, GAMMA	1-500 keV	10	2	AE	Häggbloom Fast reactor calculations	Energy range, accuracy, requestor changed
27	1220 [1359]	<sup>241</sup> Pu	FISSION	1 keV-5 MeV	10	2	AE	Häggbloom Fast reactor calculations	Energy range, accuracy changed

No	Ref [Reg]	Nuclide	Quantity	Energy	Accuracy %	Priority	Lab	Requestor	Comments
28	1250 [1360]	<sup>241</sup> Pu	N, GAMMA	1 keV-5 MeV	10	2	AE	Häggbloom Fast reactor calculations	Energy range changed
29	New request	<sup>242</sup> Pu	FISSION	1 keV-5 MeV	10	3	AE	Häggbloom Fast reactor calculations	
30	New request	<sup>242</sup> Pu	N, GAMMA	1 keV-5 MeV	10	3	AE	Häggbloom Fast reactor calculations	

New requests

11, 12, 13, 14, 17, 22, 23, 25, 29, 30

<u>Withdrawn</u>				<u>Reason</u>
WRENDA 73				
223	[239]	Mn	N,GAMMA	Fast reactor calculations connected with the FRO program. Activity discontinued.
268	[277]	Fe	N,ALPHA	Needed for calculations of He-production in fuel cladding. Activity discontinued.
285	[1354]	<sup>58</sup> Co	N,GAMMA RESINT ABS	Needed for dosimetry calculations. Activity discontinued.
287	[1465]	<sup>58</sup> Co	N,ALPHA	--
	[321]	Ni	N,ALPHA	Needed for calculations of He-production in fuel cladding. Activity discontinued.
359	[329]	Cu	N,GAMMA	Fast reactor calculations connected with the FRO program. Activity discontinued.
471	[1334]	<sup>95</sup> Mo	N,GAMMA	--
476	[1335]	<sup>97</sup> Mo	N,GAMMA	--
483	[1336]	<sup>99</sup> Tc	N,GAMMA	--
489	[1337]	<sup>101</sup> Ru	N,GAMMA	--
493	[1338]	<sup>102</sup> Ru	N,GAMMA	--
505	[1339]	<sup>103</sup> Rh	N,GAMMA	--
512	[1340]	<sup>105</sup> Pd	N,GAMMA	--
517	[1341]	<sup>107</sup> Pd	N,GAMMA	--
525	[1342]	<sup>109</sup> Ag	N,GAMMA	--
547	[1343]	<sup>131</sup> Xe	N,GAMMA	--
557	[1466]	<sup>133</sup> Cs	N,GAMMA	--
558	[1467]			
562	[1345]	<sup>135</sup> Cs	N,GAMMA	--
568	[1346]	<sup>139</sup> La	N,GAMMA	--
570	[1347]	<sup>141</sup> Pr	N,GAMMA	--
576	[1348]	<sup>143</sup> Nd	N,GAMMA	--
580	[1349]	<sup>145</sup> Nd	N,GAMMA	--
593	[1350]	<sup>147</sup> Pm	N,GAMMA	--
614	[1351]	<sup>149</sup> Sm	N,GAMMA	--
622	[1352]	<sup>151</sup> Sm	N,GAMMA	--
655	[1353]	<sup>153</sup> Eu	N,GAMMA	--
773	[635]	<sup>186</sup> W	RESON PARAMS gamma width	--

List of requestors

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