

USEFUL CHEMICALS (UE -CHEMICALS)  
Red Mercury 20/20 – 258 Technical Data Sheet

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Number	RED MERCURY 20/20 258 [Hg <sub>2</sub> Sb <sub>2</sub> O <sub>7</sub> ] - 5N/7N/9N			
1.	Chemical Formula	Hg <sub>2</sub> Sb <sub>2</sub> O <sub>7</sub>		
2.	Molecular Formula	Sb <sub>2</sub> O <sub>7</sub> Hg <sub>2</sub>		
3.	General Molecular mass	756.61 ± 2g/mol [756.7002g/mol]		
4.	Weight	1 g equivalent 196.01		
5.	Form / Status	Liquid scroll-like (Rolling liquid metal)		
6.	Chemical purity	99.9999999% [5N/7N/9N]		
7.	Isotopic Purity	99.9999%		
8.	Colour	Cherry-red		
9.	Melting point	-37.50°C / -36.4°F		
10.	Steam Inflammation under normal state	1 / 0.02 °C		
11.	Boiling Point	350.73°C / 663.314°F		
12.	Critical point TPR	160.87°C / 321.566°F		
13.	Gamma value [Level of gamma radiation]	0.44 - 0.64		
14.	K reaction [Reaction with K]	0.00015-0.00016		
15.	P reaction [Reaction with P]	9.000-8.000		
16.	VDSA reaction	0.30-0.29		
17.	Radiation	0.794		
18.	Ebullioscopy [Ebullioscopic constant]	0.062		
19.	Freezing Temperature	1.024°C / 33.8432°F		
20.	VHTC MP reaction	1.024		
21.	Variety	37.00016		
22.	Binding Energy	211Kcal / mole		
23.	Absorbance in ultra violet range	0.3 / >103 [Lawrencium-103]		
24.	MG	196.01 + _0.02/mole water content		
25.	Densitometric density	20} in reactor		
26.	Density	BK-20/20 – 20.2 gam		
27.	Flash point	170.026		
28.	X-Ray Density	20} not under 19.0-19.6/20 °C –66.2-67.28/68F		
29.	Condition under normal liquid state	t-20 °C / 68°F crystal with blast furnace structure @ PO-1.0132 bar		
30.	View in Mirror	No image or reflection in mirror		
31.	Attraction to Gold	Attracted to Gold		
32.	Colour test	No colour loss when lemon juice is added		
33.	Water Test	Turns water red when brought closer		
30.	ELEMENTARY COMPOSITION			
Symbol	Element	Atomic weight	Number of atoms	Present mass
Hg	Mercury	200.592 g/mol	2	53.0176%
Sb	Antimony	121.7601 g/mol	2	32.1819%
o	Oxygen	15.99943 g/mol	7	14.8005%
31	ELEMENT ANALYSIS: 99.9999999% ISOTOPE STRUCTURE			

<sup>16</sup> O (Oxygen)	<sup>17</sup> O (Oxygen)		<sup>18</sup> O (Oxygen)			
99.75%-99.76%	0.032%-0.037%		0.2%-0.20%			
<sup>121</sup> Sb(Antimony)	<sup>123</sup> Sb(Antimony)		<sup>124</sup> Sb(Antimony)	<sup>125</sup> Sb(Antimony)	<sup>126</sup> Sb(Antimony)	<sup>127</sup> Sb(Antimony)
3.37%	9.1%		83.6%	3.68%	0.5/0.25%	0.5/0.26%
<sup>196</sup> Hg (Mercury)	<sup>198</sup> Hg (Mercury)	<sup>199</sup> Hg (Mercury)	<sup>200</sup> Hg (Mercury)	<sup>201</sup> Hg (Mercury)	<sup>202</sup> Hg (Mercury)	<sup>204</sup> Hg (Mercury)
0.14% -0.18%	10.0% -10.3%	16.8% -16.84%	23.1%	13.2%	28.0% -29.8%	6.8% -6.85%

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