

2-Hydroxy-3-methylbenzhydrazide

Other names:	2-Hydroxy-3-methylbenzhydrazide
Inchi:	InChI=1S/C8H10N2O2/c1-5-3-2-4-6(7(5)11)8(12)10-9/h2-4,11H,9H2,1H3,(H,10,12)
InchiKey:	UWNTVIWGD XKENJ-UHFFFAOYSA-N
Formula:	C8H10N2O2
SMILES:	Cc1cccc(C(=O)NN)c1O
Mol. weight [g/mol]:	166.18

Physical Properties

Property code	Value	Unit	Source
hf	-219.35	kJ/mol	Cheméo Relay (1.0)
hfus	27.81	kJ/mol	Joback Method
hvap	88.61	kJ/mol	Cheméo Relay (1.0)
ie	8.34	eV	Cheméo Relay (1.0)
log10ws	-1.45		Cheméo Relay (1.0)
logp	0.304		Crippen Method
mcvol	127.220	ml/mol	McGowan Method
tb	572.12	K	Cheméo Relay (1.0)
tc	871.06	K	Cheméo Relay (1.0)
tf	420.16	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	329.09	J/mol×K	671.29	Joback Method
cpg	338.95	J/mol×K	711.52	Joback Method
cpg	348.12	J/mol×K	751.75	Joback Method
cpg	356.68	J/mol×K	791.98	Joback Method
cpg	364.74	J/mol×K	832.21	Joback Method
cpg	372.37	J/mol×K	872.44	Joback Method
cpg	379.66	J/mol×K	912.67	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C30991425&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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