

1-Hydroxy-2-(n-methyl) naphthanilide

Inchi:	InChI=1S/C18H15NO2/c1-19(14-8-3-2-4-9-14)18(21)16-12-11-13-7-5-6-10-15(13)17(16)
InchiKey:	NOHDXFJATHRKLM-UHFFFAOYSA-N
Formula:	C18H15NO2
SMILES:	CN(C(=O)c1ccc2ccccc2c1O)c1ccccc1
Mol. weight [g/mol]:	277.32
CAS:	109812-63-7

Physical Properties

Property code	Value	Unit	Source
gf	249.76	kJ/mol	Joback Method
hf	15.45	kJ/mol	Joback Method
hfus	37.49	kJ/mol	Joback Method
hvap	84.32	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	3.822		Crippen Method
mcvol	214.920	ml/mol	McGowan Method
pc	2940.89	kPa	Joback Method
tb	835.49	K	Joback Method
tc	1092.27	K	Joback Method
tf	584.80	K	Joback Method
vc	0.740	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	617.32	J/mol×K	835.49	Joback Method
cpg	630.95	J/mol×K	878.29	Joback Method
cpg	643.87	J/mol×K	921.08	Joback Method
cpg	656.29	J/mol×K	963.88	Joback Method
cpg	668.45	J/mol×K	1006.67	Joback Method
cpg	680.55	J/mol×K	1049.47	Joback Method
cpg	692.83	J/mol×K	1092.27	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C109812637&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

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

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