

Phenglutarimide

Other names:	2,6-Piperidinedione, 3-[2-(diethylamino)ethyl]-3-phenyl-Glutarimide, 2-(2-(diethylamino)ethyl)-2-phenyl-Aturban Aturbane CIBA 10870 2-(2-(Diethylamino)ethyl)-2-phenylglutarimide Phenglutarimid
Inchi:	InChI=1S/C17H24N2O2/c1-3-19(4-2)13-12-17(14-8-6-5-7-9-14)11-10-15(20)18-16(17)21
InchiKey:	BFMBKRQFMILCH-UHFFFAOYSA-N
Formula:	C17H24N2O2
SMILES:	CCN(CC)CCC1(c2ccccc2)CCC(=O)NC1=O
Mol. weight [g/mol]:	288.38
CAS:	1156-05-4

Physical Properties

Property code	Value	Unit	Source
gf	176.94	kJ/mol	Joback Method
hf	-258.18	kJ/mol	Joback Method
hfus	31.00	kJ/mol	Joback Method
hvap	72.28	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.093		Crippen Method
mvol	238.870	ml/mol	McGowan Method
pc	2111.94	kPa	Joback Method
rinpol	2321.00		NIST Webbook
rinpol	2321.00		NIST Webbook
tb	831.46	K	Joback Method
tc	1077.51	K	Joback Method
tf	612.99	K	Joback Method
vc	0.879	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	760.42	J/mol×K	831.46	Joback Method
cpg	780.76	J/mol×K	872.47	Joback Method
cpg	800.03	J/mol×K	913.48	Joback Method
cpg	818.37	J/mol×K	954.48	Joback Method
cpg	835.88	J/mol×K	995.49	Joback Method
cpg	852.71	J/mol×K	1036.50	Joback Method
cpg	868.96	J/mol×K	1077.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1156054&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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