

Glutethimide

Other names:

2,6-Piperidinedione, 3-ethyl-3-phenyl-

2-Ethyl-2-phenylglutarimide

2-Phenyl-2-ethylglutaric acid imide

2-ethyl-2-phenylgluterimide

3-Ethyl-3-phenyl-2,6-diketopiperidine

3-Ethyl-3-phenyl-2,6-dioxopiperidine

3-Ethyl-3-phenyl-2,6-piperidinedione

3-Phenyl-3-ethyl-2,6-diketopiperidine

3-Phenyl-3-ethyl-2,6-dioxopiperidine

Alfimid

CC 11511

Doriden

Doriden-Sed

Elrodorm

Gimid

Glimid

Glutarimide, 2-ethyl-2-phenyl-

Glutathimid

Glutethamide

Glutethimid

Glutetimid

Glutetimide

Glutetimidu

Gluthetimide

NSC 95239

Noxiron

Noxyron

Ondasil

Phenyl-aethyl-glutarsaeureimid

Rigenox

Sarodormin

dl-Glutethimide

«alpha»-Ethyl-«alpha»-phenylglutarimide

«alpha»-Phenyl-«alpha»-ethylglutaric acid imide

«alpha»-Phenyl-«alpha»-ethylglutarimide

Inchi:

InChI=1S/C13H15NO2/c1-2-13(10-6-4-3-5-7-10)9-8-11(15)14-12(13)16/h3-7H,2,8-9H2,1

InchiKey:

JMBQKKAJIKAWKF-UHFFFAOYSA-N

Formula:

C13H15NO2

SMILES:

CCC1(c2ccccc2)CCC(=O)NC1=O

Mol. weight [g/mol]:

217.26

Physical Properties

Property code	Value	Unit	Source
gf	32.48	kJ/mol	Joback Method
hf	-243.15	kJ/mol	Joback Method
hfus	17.61	kJ/mol	Joback Method
hvap	61.34	kJ/mol	Joback Method
log10ws	-2.34		Estimated Solubility Method
log10ws	-2.34		Aqueous Solubility Prediction Method
logp	1.771		Crippen Method
mcvol	172.530	ml/mol	McGowan Method
pc	3121.00	kPa	Joback Method
rinpol	1850.00		NIST Webbook
rinpol	1840.00		NIST Webbook
rinpol	1879.00		NIST Webbook
rinpol	1845.00		NIST Webbook
rinpol	1845.00		NIST Webbook
rinpol	1837.00		NIST Webbook
rinpol	1850.00		NIST Webbook
rinpol	1850.00		NIST Webbook
rinpol	1830.00		NIST Webbook
rinpol	1818.00		NIST Webbook
rinpol	1820.00		NIST Webbook
rinpol	1830.00		NIST Webbook
rinpol	1875.00		NIST Webbook
rinpol	1870.00		NIST Webbook
rinpol	1844.00		NIST Webbook
rinpol	1797.00		NIST Webbook
rinpol	1806.00		NIST Webbook
rinpol	1803.00		NIST Webbook
rinpol	1875.00		NIST Webbook
rinpol	1849.00		NIST Webbook
rinpol	1825.00		NIST Webbook
rinpol	1823.00		NIST Webbook
rinpol	1841.00		NIST Webbook
rinpol	1845.00		NIST Webbook
rinpol	1825.00		NIST Webbook
rinpol	1809.00		NIST Webbook

rinpol	1855.00		NIST Webbook
rinpol	1810.00		NIST Webbook
rinpol	1810.00		NIST Webbook
rinpol	1850.00		NIST Webbook
rinpol	1836.00		NIST Webbook
rinpol	1836.00		NIST Webbook
rinpol	1834.00		NIST Webbook
rinpol	1825.00		NIST Webbook
rinpol	1830.00		NIST Webbook
rinpol	1850.00		NIST Webbook
rinpol	1823.00		NIST Webbook
rinpol	1849.00		NIST Webbook
rinpol	1845.00		NIST Webbook
rinpol	1809.00		NIST Webbook
rinpol	1806.00		NIST Webbook
rinpol	1806.00		NIST Webbook
rinpol	1844.00		NIST Webbook
tb	727.50	K	Joback Method
tc	1001.12	K	Joback Method
tf	358.00 ± 1.00	K	NIST Webbook
tf	358.90	K	Aqueous Solubility Prediction Method
vc	0.637	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	492.97	J/mol×K	727.50	Joback Method
cpg	512.20	J/mol×K	773.10	Joback Method
cpg	530.30	J/mol×K	818.71	Joback Method
cpg	547.37	J/mol×K	864.31	Joback Method
cpg	563.55	J/mol×K	909.91	Joback Method
cpg	578.96	J/mol×K	955.52	Joback Method
cpg	593.73	J/mol×K	1001.12	Joback Method

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>
Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C77214&Units=SI>

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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