Ethosuximide

Other names:

(.+-.)-Ethosuximide
(.+/-.)-Ethosuximide
2,5-Pyrrolidinedione, 3-ethyl-3-methyl-
2-Methyl-2-ethylsuccinimide
2-ethyl-2-methylsuccinimide
3-Ethyl-3-methyl-2,5-pyrrolidinedione
3-Ethyl-3-methylpyrroline-2,5-dione
3-Methyl-3-ethylpyrrolidine-2,5-dione
3-Methyl-3-ethylsuccinimide
3-ethyl-3-methylpyrrolidine-2,5-dione
Aethosuximide
Asamid
Atysmal
C.I. 366
CI-366
CN-10,395
Capitus
Cl 366
Emeside
Epileo petit mal
Ethosuccimide
Ethosuccinimide
Ethosuxide
Ethymal
Etomal
Etosuximid
Etosuximida
H 940
H-490
Mesentol
NSC-64013
PM 671
Pemal
Pemalin
Pentinimid
Peptinimid
Petinimid
Petnidan
Piknolepsin
Pyknolepsinum

	Ronton
	Simatin
	Simatin(E)
	Succimal
	Succimitin
	Succinimide, 2-ethyl-2-methyl-
	Suxilep
	Suximal
	Suxin
	Suxinutin
	Thetamid
	Thilopemal
	Uritone
	Urodeine
	Zaraondan
	Zarodan
	Zarondan
	Zarondan-Saft
	Zarontin
	Zartalin
	«alpha»-Ethyl-«alpha»-methylsuccinimide
	«alpha»-Methyl-«alpha»-ethylsuccinimide
	«gamma»-Methyl-«gamma»-ethylsuccinimide
Inchi:	InChI=1S/C7H11NO2/c1-3-7(2)4-5(9)8-6(7)10/h3-4H2,1-2H3,(H,8,9,10)
InchiKey:	HAPOVYFOVVWLRS-UHFFFAOYSA-N
Formula:	C7H11NO2
SMILES:	CCC1(C)CC(=O)NC1=O
Mol. weight [g/mol]:	141.17
CAS:	77-67-8

Physical Properties

Property code	Value	Unit	Source
gf	-118.35	kJ/mol	Joback Method
hf	-349.68	kJ/mol	Joback Method
hfus	10.13	kJ/mol	Joback Method
hvap	45.53	kJ/mol	Joback Method
log10ws	-1.15		Crippen Method
logp	0.449		Crippen Method
mcvol	111.750	ml/mol	McGowan Method
pc	4056.96	kPa	Joback Method

rinpol	1206.00		NIST Webbook
rinpol	1190.00		NIST Webbook
rinpol	1210.00		NIST Webbook
rinpol	1225.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1193.00		NIST Webbook
rinpol	1193.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1194.00		NIST Webbook
rinpol	1193.00		NIST Webbook
rinpol	1220.00		NIST Webbook
rinpol	1189.00		NIST Webbook
rinpol	1220.00		NIST Webbook
rinpol	1220.00		NIST Webbook
rinpol	1206.00		NIST Webbook
rinpol	1189.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1194.00		NIST Webbook
tb	559.27	K	Joback Method
tc	806.65	K	Joback Method
tf	316.71	K	Experimental measurement and correlation of solubility of ethosuximide in supercritical carbon dioxide
vc	0.417	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.91	J/mol×K	559.27	Joback Method
cpg	285.39	J/mol×K	600.50	Joback Method
cpg	299.21	J/mol×K	641.73	Joback Method
cpg	312.42	J/mol×K	682.96	Joback Method
cpg	325.08	J/mol×K	724.19	Joback Method
cpg	337.27	J/mol×K	765.42	Joback Method
cpg	349.04	J/mol×K	806.65	Joback Method

Sources

Experimental measurement and correlation of solubility of ethosuximide in supercritical carbon dioxide:	https://www.doi.org/10.1016/j.jct.2018.10.032
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=C77678&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
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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