

Glutaric acid, monoamide, N-(2-octyl)-, ethyl ester

Inchi:	InChI=1S/C15H29NO3/c1-4-6-7-8-10-13(3)16-14(17)11-9-12-15(18)19-5-2/h13H,4-12H2
InchiKey:	ZJOCAIIOFNCOY-UHFFFAOYSA-N
Formula:	C15H29NO3
SMILES:	CCCCCCC(C)NC(=O)CCCC(=O)OCC
Mol. weight [g/mol]:	271.40

Physical Properties

Property code	Value	Unit	Source
gf	-200.47	kJ/mol	Joback Method
hf	-662.12	kJ/mol	Joback Method
hfus	40.57	kJ/mol	Joback Method
hvap	70.93	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	3.195		Crippen Method
mcvol	241.200	ml/mol	McGowan Method
pc	1564.75	kPa	Joback Method
rinpola	2344.00		NIST Webbook
tb	722.49	K	Joback Method
tc	903.63	K	Joback Method
tf	418.56	K	Joback Method
vc	0.934	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	708.39	J/molxK	722.49	Joback Method
cpg	724.58	J/molxK	752.68	Joback Method
cpg	739.93	J/molxK	782.87	Joback Method
cpg	754.45	J/molxK	813.06	Joback Method
cpg	768.17	J/molxK	843.25	Joback Method
cpg	781.11	J/molxK	873.44	Joback Method
cpg	793.27	J/molxK	903.63	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360850&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	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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