

Glutaric acid, monoamide, N-(3-pentyl)-, butyl ester

Inchi:	InChI=1S/C14H27NO3/c1-4-7-11-18-14(17)10-8-9-13(16)15-12(5-2)6-3/h12H,4-11H2,1-3
InchiKey:	RMHYACMHJPHUDN-UHFFFAOYSA-N
Formula:	C14H27NO3
SMILES:	CCCCOC(=O)CCCC(=O)NC(CC)CC
Mol. weight [g/mol]:	257.37

Physical Properties

Property code	Value	Unit	Source
gf	-208.89	kJ/mol	Joback Method
hf	-641.48	kJ/mol	Joback Method
hfus	37.98	kJ/mol	Joback Method
hvap	68.71	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	2.805		Crippen Method
mcvol	227.110	ml/mol	McGowan Method
pc	1690.72	kPa	Joback Method
rinpola	1913.00		NIST Webbook
tb	699.61	K	Joback Method
tc	880.88	K	Joback Method
tf	407.29	K	Joback Method
vc	0.878	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	652.56	J/molxK	699.61	Joback Method
cpg	668.33	J/molxK	729.82	Joback Method
cpg	683.30	J/molxK	760.03	Joback Method
cpg	697.48	J/molxK	790.25	Joback Method
cpg	710.90	J/molxK	820.46	Joback Method
cpg	723.56	J/molxK	850.67	Joback Method
cpg	735.48	J/molxK	880.88	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360809&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
mccvol:	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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