

Glutaric acid, nonyl tetrahydrofurfuryl ester

Inchi:	InChI=1S/C19H34O5/c1-2-3-4-5-6-7-8-14-23-18(20)12-9-13-19(21)24-16-17-11-10-15-22
InchiKey:	XFSBAOJZOQZTIJ-UHFFFAOYSA-N
Formula:	C19H34O5
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)OCC1CCCO1
Mol. weight [g/mol]:	342.47

Physical Properties

Property code	Value	Unit	Source
gf	-408.31	kJ/mol	Joback Method
hf	-996.61	kJ/mol	Joback Method
hfus	52.45	kJ/mol	Joback Method
hvap	80.97	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	4.173		Crippen Method
mcvol	288.460	ml/mol	McGowan Method
pc	1294.86	kPa	Joback Method
rinsol	2532.00		NIST Webbook
tb	828.93	K	Joback Method
tc	1022.86	K	Joback Method
tf	485.68	K	Joback Method
vc	1.109	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	936.66	J/molxK	828.93	Joback Method
cpg	954.37	J/molxK	861.25	Joback Method
cpg	970.91	J/molxK	893.57	Joback Method
cpg	986.30	J/molxK	925.89	Joback Method
cpg	1000.58	J/molxK	958.21	Joback Method
cpg	1013.76	J/molxK	990.54	Joback Method
cpg	1025.86	J/molxK	1022.86	Joback Method
dvisc	0.0009900	Paxs	485.68	Joback Method
dvisc	0.0005193	Paxs	542.89	Joback Method

dvisc	0.0003081	Paxs	600.10	Joback Method
dvisc	0.0002001	Paxs	657.31	Joback Method
dvisc	0.0001393	Paxs	714.51	Joback Method
dvisc	0.0001023	Paxs	771.72	Joback Method
dvisc	0.0000784	Paxs	828.93	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U359665&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
dvisc:	Dynamic viscosity
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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