

Glutaric acid, 2-norbornyl hept-2-yl ester

Inchi:	InChI=1S/C19H32O4/c1-3-4-5-7-14(2)22-18(20)8-6-9-19(21)23-17-13-15-10-11-16(17)12
InchiKey:	RIIQGVFVZUIYEH-UHFFFAOYSA-N
Formula:	C19H32O4
SMILES:	CCCCC(C)OC(=O)CCCC(=O)OC1CC2CCC1C2
Mol. weight [g/mol]:	324.45

Physical Properties

Property code	Value	Unit	Source
gf	-259.49	kJ/mol	Joback Method
hf	-811.27	kJ/mol	Joback Method
hfus	42.26	kJ/mol	Joback Method
hvap	75.50	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.401		Crippen Method
mcvol	271.730	ml/mol	McGowan Method
pc	1381.96	kPa	Joback Method
rinpol	2211.00		NIST Webbook
rinpol	2211.00		NIST Webbook
tb	799.34	K	Joback Method
tc	996.00	K	Joback Method
tf	461.33	K	Joback Method
vc	1.046	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	885.36	J/molxK	799.34	Joback Method
cpg	904.04	J/molxK	832.12	Joback Method
cpg	921.59	J/molxK	864.89	Joback Method
cpg	938.05	J/molxK	897.67	Joback Method
cpg	953.49	J/molxK	930.45	Joback Method
cpg	967.94	J/molxK	963.22	Joback Method
cpg	981.46	J/molxK	996.00	Joback Method
dvisc	0.0023437	Paxs	461.33	Joback Method

dvisc	0.0015300	Paxs	517.66	Joback Method
dvisc	0.0010860	Paxs	574.00	Joback Method
dvisc	0.0008196	Paxs	630.34	Joback Method
dvisc	0.0006477	Paxs	686.67	Joback Method
dvisc	0.0005305	Paxs	743.00	Joback Method
dvisc	0.0004469	Paxs	799.34	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405491&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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