Glutaric acid, 2-norbornyl 3-methylbut-2-en-1-yl ester

Inchi: InChI=1S/C17H26O4/c1-12(2)8-9-20-16(18)4-3-5-17(19)21-15-11-13-6-7-14(15)10-13/h8

InchiKey: PQIKZICIWGWKHQ-UHFFFAOYSA-N

Formula: C17H26O4

SMILES: CC(C)=CCOC(=O)CCCC(=O)OC1CC2CCC1C2

Mol. weight [g/mol]: 294.39

Physical Properties

Property code	Value	Unit	Source
gf	-202.22	kJ/mol	Joback Method
hf	-657.28	kJ/mol	Joback Method
hfus	39.49	kJ/mol	Joback Method
hvap	71.47	kJ/mol	Joback Method
log10ws	-3.94		Crippen Method
logp	3.398		Crippen Method
mcvol	239.250	ml/mol	McGowan Method
pc	1667.33	kPa	Joback Method
rinpol	2122.00		NIST Webbook
rinpol	2122.00		NIST Webbook
tb	758.06	K	Joback Method
tc	961.25	K	Joback Method
tf	434.75	K	Joback Method
vc	0.921	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	742.53	J/mol×K	758.06	Joback Method
cpg	760.33	J/mol×K	791.93	Joback Method
cpg	777.06	J/mol×K	825.79	Joback Method
cpg	792.78	J/mol×K	859.66	Joback Method
cpg	807.55	J/mol×K	893.52	Joback Method
cpg	821.43	J/mol×K	927.39	Joback Method
cpg	834.48	J/mol×K	961.25	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405488&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
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