Glutaric acid, di(3-methylbut-3-enyl) ester

Inchi: InChI=1S/C15H24O4/c1-12(2)8-10-18-14(16)6-5-7-15(17)19-11-9-13(3)4/h1,3,5-11H2,2,
InchiKey: BOOKLIKJSLLJAB-UHFFFAOYSA-N
Formula: C15H24O4
SMILES: C=C(C)CCOC(=O)CCCC(=O)OCCC(=C)C
Mol. weight [g/mol]: 268.35

Physical Properties

Property code	Value	Unit	Source
gf	-233.84	kJ/mol	Joback Method
hf	-611.25	kJ/mol	Joback Method
hfus	35.00	kJ/mol	Joback Method
hvap	66.12	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	3.175		Crippen Method
mcvol	228.490	ml/mol	McGowan Method
pc	1636.45	kPa	Joback Method
rinpol	1871.00		NIST Webbook
rinpol	1871.00		NIST Webbook
tb	688.30	K	Joback Method
tc	872.24	K	Joback Method
tf	371.69	K	Joback Method
vc	0.887	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	629.01	J/mol×K	688.30	Joback Method
cpg	644.38	J/mol×K	718.96	Joback Method
cpg	658.97	J/mol×K	749.61	Joback Method
cpg	672.80	J/mol×K	780.27	Joback Method
cpg	685.87	J/mol×K	810.93	Joback Method
cpg	698.20	J/mol×K	841.58	Joback Method
cpg	709.81	J/mol×K	872.24	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U359959&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

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