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

Inchi: InChI=1S/C15H24O4/c1-12(2)10-11-18-14(16)8-5-9-15(17)19-13-6-3-4-7-13/h10,13H,3-9

InchiKey: NAFWKHBBNQNDNP-UHFFFAOYSA-N

Formula: C15H24O4

SMILES: CC(C)=CCOC(=O)CCCC(=O)OC1CCCC1

Mol. weight [g/mol]: 268.35

Physical Properties

Property code	Value	Unit	Source
gf	-284.20	kJ/mol	Joback Method
hf	-674.62	kJ/mol	Joback Method
hfus	33.01	kJ/mol	Joback Method
hvap	67.59	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.152		Crippen Method
mcvol	221.930	ml/mol	McGowan Method
pc	1843.58	kPa	Joback Method
rinpol	1904.00		NIST Webbook
rinpol	1904.00		NIST Webbook
tb	714.50	K	Joback Method
tc	916.23	K	Joback Method
tf	394.99	K	Joback Method
vc	0.846	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	645.33	J/mol×K	714.50	Joback Method
cpg	662.55	J/mol×K	748.12	Joback Method
cpg	678.75	J/mol×K	781.74	Joback Method
cpg	693.93	J/mol×K	815.36	Joback Method
cpg	708.14	J/mol×K	848.99	Joback Method
cpg	721.40	J/mol×K	882.61	Joback Method
cpg	733.74	J/mol×K	916.23	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405391&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