

Glutaric acid, 2-methylpent-3-yl pentafluorophenyl ester

Inchi:	InChI=1S/C17H19F5O4/c1-4-9(8(2)3)25-10(23)6-5-7-11(24)26-17-15(21)13(19)12(18)14
InchiKey:	GLPYBKNOGDQYQA-UHFFFAOYSA-N
Formula:	C17H19F5O4
SMILES:	CCC(OC(=O)CCCC(=O)Oc1c(F)c(F)c(F)c(F)c1F)C(C)C
Mol. weight [g/mol]:	382.32

Physical Properties

Property code	Value	Unit	Source
gf	-1290.25	kJ/mol	Joback Method
hf	-1695.74	kJ/mol	Joback Method
hfus	45.81	kJ/mol	Joback Method
hvap	72.47	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	4.436		Crippen Method
mcvol	250.360	ml/mol	McGowan Method
pc	1360.63	kPa	Joback Method
rinpol	1813.00		NIST Webbook
rinpol	1813.00		NIST Webbook
tb	787.99	K	Joback Method
tc	972.51	K	Joback Method
tf	487.64	K	Joback Method
vc	1.006	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	740.23	J/mol×K	787.99	Joback Method
cpg	753.44	J/mol×K	818.74	Joback Method
cpg	765.82	J/mol×K	849.50	Joback Method
cpg	777.34	J/mol×K	880.25	Joback Method
cpg	788.02	J/mol×K	911.01	Joback Method
cpg	797.84	J/mol×K	941.76	Joback Method
cpg	806.82	J/mol×K	972.51	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U392107&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
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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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