

Glutaric acid, 1-(pentafluorophenyl)ethyl propyl ester

Inchi:	InChI=1S/C16H17F5O4/c1-3-7-24-9(22)5-4-6-10(23)25-8(2)11-12(17)14(19)16(21)15(20)
InchiKey:	QEERBOYDEPRAKQ-UHFFFAOYSA-N
Formula:	C16H17F5O4
SMILES:	CCCOC(=O)CCCC(=O)OC(C)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	368.30

Physical Properties

Property code	Value	Unit	Source
gf	-1296.23	kJ/mol	Joback Method
hf	-1669.82	kJ/mol	Joback Method
hfus	46.74	kJ/mol	Joback Method
hvap	70.64	kJ/mol	Joback Method
log10ws	-5.46		Crippen Method
logp	4.110		Crippen Method
mcvol	236.270	ml/mol	McGowan Method
pc	1453.46	kPa	Joback Method
rinpola	1833.00		NIST Webbook
rinpola	1833.00		NIST Webbook
tb	765.55	K	Joback Method
tc	947.17	K	Joback Method
tf	491.37	K	Joback Method
vc	0.956	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.02	J/mol×K	765.55	Joback Method
cpg	696.68	J/mol×K	795.82	Joback Method
cpg	708.58	J/mol×K	826.09	Joback Method
cpg	719.71	J/mol×K	856.36	Joback Method
cpg	730.07	J/mol×K	886.63	Joback Method
cpg	739.66	J/mol×K	916.90	Joback Method
cpg	748.47	J/mol×K	947.17	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U376995&Units=SI

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/117-480-9/Glutaric-acid-1-pentafluorophenyl-ethyl-propyl-ester.pdf>

Generated by Cheméo on 2024-05-03 12:48:48.736677083 +0000 UTC m=+17029777.657254395.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.