

Glutaric acid, pentafluorobenzyl tetradecyl ester

Inchi:	InChI=1S/C26H37F5O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-17-34-20(32)15-14-16-21(33)35
InchiKey:	QEUUCAOVZPPAIW-UHFFFAOYSA-N
Formula:	C26H37F5O4
SMILES:	CCCCCCCCCCCCCOC(=O)CCCC(=O)OCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	508.56

Physical Properties

Property code	Value	Unit	Source
gf	-1209.59	kJ/mol	Joback Method
hf	-1870.94	kJ/mol	Joback Method
hfus	76.17	kJ/mol	Joback Method
hvap	93.28	kJ/mol	Joback Method
log10ws	-9.69		Crippen Method
logp	7.840		Crippen Method
mvol	377.170	ml/mol	McGowan Method
pc	775.48	kPa	Joback Method
rinpol	2958.00		NIST Webbook
rinpol	2958.00		NIST Webbook
tb	994.79	K	Joback Method
tc	1234.18	K	Joback Method
tf	619.07	K	Joback Method
vc	1.522	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1274.97	J/molxK	994.79	Joback Method
cpg	1292.38	J/molxK	1034.69	Joback Method
cpg	1307.88	J/molxK	1074.59	Joback Method
cpg	1321.50	J/molxK	1114.49	Joback Method
cpg	1333.29	J/molxK	1154.38	Joback Method
cpg	1343.28	J/molxK	1194.28	Joback Method
cpg	1351.51	J/molxK	1234.18	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=U358879&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
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

Latest version available from:

<https://www.chemeo.com/cid/57-614-7/Glutaric-acid-pentafluorobenzyl-tetradecyl-ester.pdf>

Generated by Cheméo on 2024-04-20 16:05:17.496708151 +0000 UTC m=+15918366.417285463.

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