

Glutaric acid, nonyl 1-(pentafluorophenyl)ethyl ester

Inchi:	InChI=1S/C22H29F5O4/c1-3-4-5-6-7-8-9-13-30-15(28)11-10-12-16(29)31-14(2)17-18(23)
InchiKey:	FLKCJEDXZCCQSV-UHFFFAOYSA-N
Formula:	C22H29F5O4
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)OC(C)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	452.46

Physical Properties

Property code	Value	Unit	Source
gf	-1245.71	kJ/mol	Joback Method
hf	-1793.66	kJ/mol	Joback Method
hfus	62.28	kJ/mol	Joback Method
hvap	83.99	kJ/mol	Joback Method
log10ws	-7.98		Crippen Method
logp	6.450		Crippen Method
mvol	320.810	ml/mol	McGowan Method
pc	977.17	kPa	Joback Method
rinpol	2414.00		NIST Webbook
tb	902.83	K	Joback Method
tc	1105.91	K	Joback Method
tf	558.99	K	Joback Method
vc	1.292	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1030.95	J/mol×K	902.83	Joback Method
cpg	1046.26	J/mol×K	936.68	Joback Method
cpg	1060.31	J/mol×K	970.52	Joback Method
cpg	1073.11	J/mol×K	1004.37	Joback Method
cpg	1084.68	J/mol×K	1038.22	Joback Method
cpg	1095.02	J/mol×K	1072.06	Joback Method
cpg	1104.14	J/mol×K	1105.91	Joback Method

Sources

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=U377003&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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

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