

Glutaric acid, 1-(2,6-difluorophenyl)ethyl pentadecyl ester

Inchi:	InChI=1S/C28H44F2O4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-22-33-26(31)20-17-21-27(3
InchiKey:	HJGJDJMBLISUER-UHFFFAOYSA-N
Formula:	C28H44F2O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OC(C)c1c(F)cccc1F
Mol. weight [g/mol]:	482.64

Physical Properties

Property code	Value	Unit	Source
gf	-581.87	kJ/mol	Joback Method
hf	-1294.76	kJ/mol	Joback Method
hfus	69.75	kJ/mol	Joback Method
hvap	97.81	kJ/mol	Joback Method
log10ws	-9.49		Crippen Method
logp	8.374		Crippen Method
mvol	400.040	ml/mol	McGowan Method
pc	773.75	kPa	Joback Method
rinpol	3203.00		NIST Webbook
rinpol	3203.00		NIST Webbook
tb	1027.36	K	Joback Method
tc	1268.40	K	Joback Method
tf	587.28	K	Joback Method
vc	1.573	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1382.44	J/molxK	1027.36	Joback Method
cpg	1400.54	J/molxK	1067.53	Joback Method
cpg	1416.71	J/molxK	1107.71	Joback Method
cpg	1431.04	J/molxK	1147.88	Joback Method
cpg	1443.59	J/molxK	1188.05	Joback Method
cpg	1454.43	J/molxK	1228.22	Joback Method
cpg	1463.63	J/molxK	1268.40	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U377260&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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