

Glutaric acid, 3,5-difluorophenyl heptadecyl ester

Inchi:	InChI=1S/C28H44F2O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-20-33-27(31)18-17-19
InchiKey:	RDAZTHWTSATKFV-UHFFFAOYSA-N
Formula:	C28H44F2O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)Oc1cc(F)cc(F)c1
Mol. weight [g/mol]:	482.64

Physical Properties

Property code	Value	Unit	Source
gf	-579.43	kJ/mol	Joback Method
hf	-1289.48	kJ/mol	Joback Method
hfus	73.27	kJ/mol	Joback Method
hvap	98.20	kJ/mol	Joback Method
log10ws	-9.68		Crippen Method
logp	8.455		Crippen Method
mcvol	400.040	ml/mol	McGowan Method
pc	770.32	kPa	Joback Method
rinpola	3258.00		NIST Webbook
rinpola	3258.00		NIST Webbook
tb	1027.80	K	Joback Method
tc	1270.92	K	Joback Method
tf	602.28	K	Joback Method
vc	1.579	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1382.17	J/molxK	1027.80	Joback Method
cpg	1400.49	J/molxK	1068.32	Joback Method
cpg	1416.87	J/molxK	1108.84	Joback Method
cpg	1431.40	J/molxK	1149.36	Joback Method
cpg	1444.13	J/molxK	1189.88	Joback Method
cpg	1455.14	J/molxK	1230.40	Joback Method
cpg	1464.51	J/molxK	1270.92	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=U358642&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
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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