

Glutaric acid, monoamide, N-(3,5-di(trifluoromethyl)benzyl)-, tridecyl ester

Inchi:
InchiKey:

InChI=1S/C27H39F6NO3/c1-2-3-4-5-6-7-8-9-10-11-12-16-37-25(36)15-13-14-24(35)34-2

BUPGDKPBZNVDCX-UHFFFAOYSA-N

Formula:

C27H39F6NO3

SMILES:

CCCCCCCCCCCCOC(=O)CCCC(=O)NCc1cc(C(F)(F)F)cc(C(F)(F)F)c1

Mol. weight [g/mol]:

539.59

Physical Properties

Property code	Value	Unit	Source
gf	-1167.02	kJ/mol	Joback Method
hf	-1885.09	kJ/mol	Joback Method
hfus	72.09	kJ/mol	Joback Method
hvap	94.14	kJ/mol	Joback Method
log10ws	-9.92		Crippen Method
logp	8.365		Crippen Method
mcvol	397.140	ml/mol	McGowan Method
pc	763.52	kPa	Joback Method
rinpol	2970.00		NIST Webbook
tb	1023.29	K	Joback Method
tc	1269.54	K	Joback Method
tf	628.64	K	Joback Method
vc	1.591	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1377.49	J/molxK	1023.29	Joback Method
cpg	1395.72	J/molxK	1064.33	Joback Method
cpg	1412.60	J/molxK	1105.37	Joback Method
cpg	1428.28	J/molxK	1146.42	Joback Method
cpg	1442.93	J/molxK	1187.46	Joback Method
cpg	1456.71	J/molxK	1228.50	Joback Method
cpg	1469.80	J/molxK	1269.54	Joback Method

Sources

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=U360774&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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