

Glutaric acid, hex-4-yn-3-yl 1,1,1-trifluoroprop-2-yl ester

Inchi:	InChI=1S/C14H19F3O4/c1-4-7-11(5-2)21-13(19)9-6-8-12(18)20-10(3)14(15,16)17/h10-1
InchiKey:	JZFJTNXZHWECCJ-UHFFFAOYSA-N
Formula:	C14H19F3O4
SMILES:	CC#CC(CC)OC(=O)CCCC(=O)OC(C)C(F)(F)F
Mol. weight [g/mol]:	308.29

Physical Properties

Property code	Value	Unit	Source
gf	-784.51	kJ/mol	Joback Method
hf	-1157.23	kJ/mol	Joback Method
hfus	35.49	kJ/mol	Joback Method
hvap	62.70	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	2.996		Crippen Method
mcvol	219.710	ml/mol	McGowan Method
pc	1721.73	kPa	Joback Method
rinpol	1527.00		NIST Webbook
rinpol	1527.00		NIST Webbook
tb	675.00	K	Joback Method
tc	859.82	K	Joback Method
tf	472.15	K	Joback Method
vc	0.861	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	606.20	J/molxK	675.00	Joback Method
cpg	620.44	J/molxK	705.80	Joback Method
cpg	633.90	J/molxK	736.61	Joback Method
cpg	646.59	J/molxK	767.41	Joback Method
cpg	658.52	J/molxK	798.21	Joback Method
cpg	669.72	J/molxK	829.01	Joback Method
cpg	680.20	J/molxK	859.82	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=U393654&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
hvap:	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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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