

Glutaric acid, hex-4-yn-3-yl 2,2,3,3,3-pentafluoropropyl ester

Inchi: InChI=1S/C14H17F5O4/c1-3-6-10(4-2)23-12(21)8-5-7-11(20)22-9-13(15,16)14(17,18)19

InchiKey: YSQMZFOHFCXFCP-UHFFFAOYSA-N

Formula: C14H17F5O4

SMILES: CC#CC(CC)OC(=O)CCCC(=O)OCC(F)(F)C(F)(F)F

Mol. weight [g/mol]: 344.27

Physical Properties

Property code	Value	Unit	Source
gf	-1168.85	kJ/mol	Joback Method
hf	-1552.92	kJ/mol	Joback Method
hfus	37.76	kJ/mol	Joback Method
hvap	60.16	kJ/mol	Joback Method
log10ws	-4.29		Crippen Method
logp	3.243		Crippen Method
mvol	223.250	ml/mol	McGowan Method
pc	1614.17	kPa	Joback Method
rinpol	1468.00		NIST Webbook
rinpol	1468.00		NIST Webbook
tb	670.75	K	Joback Method
tc	848.07	K	Joback Method
tf	490.75	K	Joback Method
vc	0.891	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.42	J/mol×K	670.75	Joback Method
cpg	637.77	J/mol×K	700.30	Joback Method
cpg	650.35	J/mol×K	729.86	Joback Method
cpg	662.18	J/mol×K	759.41	Joback Method
cpg	673.30	J/mol×K	788.96	Joback Method
cpg	683.73	J/mol×K	818.51	Joback Method
cpg	693.50	J/mol×K	848.07	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=U393670&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

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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