

Succinic acid, hept-2-yl 1-bromo-3,3,3-trifluoroprop-2-yl ester

Inchi:	InChI=1S/C14H22BrF3O4/c1-3-4-5-6-10(2)21-12(19)7-8-13(20)22-11(9-15)14(16,17)18/
InchiKey:	UUFMAXYQDGWBLV-UHFFFAOYSA-N
Formula:	C14H22BrF3O4
SMILES:	CCCCC(C)OC(=O)CCC(=O)OC(CBr)C(F)(F)F
Mol. weight [g/mol]:	391.22

Physical Properties

Property code	Value	Unit	Source
gf	-972.99	kJ/mol	Joback Method
hf	-1403.20	kJ/mol	Joback Method
hfus	37.65	kJ/mol	Joback Method
hvap	66.98	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	4.148		Crippen Method
mcvol	245.810	ml/mol	McGowan Method
pc	1598.72	kPa	Joback Method
rinpol	1746.00		NIST Webbook
rinpol	1746.00		NIST Webbook
tb	732.16	K	Joback Method
tc	914.22	K	Joback Method
tf	425.85	K	Joback Method
vc	0.961	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	694.24	J/mol×K	732.16	Joback Method
cpg	707.94	J/mol×K	762.50	Joback Method
cpg	720.84	J/mol×K	792.85	Joback Method
cpg	732.96	J/mol×K	823.19	Joback Method
cpg	744.34	J/mol×K	853.54	Joback Method
cpg	754.98	J/mol×K	883.88	Joback Method
cpg	764.93	J/mol×K	914.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390825&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
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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