2,2,2-TRIFLUORO-1-(TRIFLUOROMETHYL)ETHYL METHACRYLATE

Other names: 2-Propenoic acid, 2-methyl-, 2,2,2-trifluoro-1-(trifluoromethyl)ethyl ester
1,1,1,3,3,3-Hexafluoroisopropyl methacrylate
2,2,2-trifluoro-1-(trifluoromethyl)ethyl methacrylate

Inchi: InChI=1S/C7H6F6O2/c1-3(2)4(14)15-5(6(8,9)10)7(11,12)13/h5H,1H2,2H3

InchiKey: FMQPBWHSNCRVQJ-UHFFFAOYSA-N

Formula: C7H6F6O2

SMILES: C=C(C)C(=O)OC(C(F)(F)F)C(F)(F)F

Mol. weight [g/mol]: 236.11

Physical Properties

Property code	Value	Unit	Source
hf	-1612.52	kJ/mol	Cheméo Relay (1.0)
hfus	14.21	kJ/mol	Joback Method
hvap	50.29	kJ/mol	Cheméo Relay (1.0)
ie	11.03	eV	Cheméo Relay (1.0)
log10ws	-2.72		Cheméo Relay (1.0)
logp	2.599		Crippen Method
mcvol	123.250	ml/mol	McGowan Method
tb	372.00	K	NIST Webbook
tf	213.75	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	277.19	J/mol×K	421.13	Joback Method
cpg	287.45	J/mol×K	447.06	Joback Method
cpg	297.14	J/mol×K	472.98	Joback Method
cpg	306.28	J/mol×K	498.91	Joback Method
cpg	314.89	J/mol×K	524.84	Joback Method
cpg	323.00	J/mol×K	550.76	Joback Method
cpg	330.62	J/mol×K	576.69	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3063943&Units=SI
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
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point