

2,2,2-TRIFLUOROETHYL METHACRYLATE

Other names:	Trifluoroethyl methacrylate Methacrylic acid 2,2,2-trifluoroethyl ester 2-Propenoic acid, 2-methyl-, 2,2,2-trifluoroethyl ester
Inchi:	InChI=1S/C6H7F3O2/c1-4(2)5(10)11-3-6(7,8)9/h1,3H2,2H3
InchiKey:	QTKPMCIBUROOGY-UHFFFAOYSA-N
Formula:	C6H7F3O2
SMILES:	C=C(C)C(=O)OCC(F)(F)F
Mol. weight [g/mol]:	168.11

Physical Properties

Property code	Value	Unit	Source
hf	-1002.15	kJ/mol	Cheméo Relay (1.0)
hfus	13.32	kJ/mol	Joback Method
hvap	42.74	kJ/mol	Cheméo Relay (1.0)
ie	10.77	eV	Cheméo Relay (1.0)
log10ws	-1.24		Cheméo Relay (1.0)
logp	1.668		Crippen Method
mcvol	103.850	ml/mol	McGowan Method
tb	389.23	K	Cheméo Relay (1.0)
tf	236.92	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	211.90	J/mol×K	404.11	Joback Method
cpg	221.07	J/mol×K	432.05	Joback Method
cpg	229.79	J/mol×K	459.99	Joback Method
cpg	238.08	J/mol×K	487.94	Joback Method
cpg	245.95	J/mol×K	515.88	Joback Method
cpg	253.43	J/mol×K	543.82	Joback Method
cpg	260.51	J/mol×K	571.76	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	303.00	K	5.30	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
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=C352874&Units=SI

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
tbrp:	Boiling point at reduced pressure
tf:	Normal melting (fusion) point

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