Tetrahydrofurfuryl methacrylate

Other names:	(tetrahydrofuran-2-yl)methyl methacrylate
	Ageflex THFMA
	Methacrylic acid, tetrahydrofurfuryl ester
	SR 203
	Sartomer SR 203
Inchi:	InChI=1S/C9H14O3/c1-7(2)9(10)12-6-8-4-3-5-11-8/h8H,1,3-6H2,2H3
InchiKey:	LCXXNKZQVOXMEH-UHFFFAOYSA-N
Formula:	C9H14O3
SMILES:	C=C(C)C(=O)OCC1CCCO1
Mol. weight [g/mol]:	170.21

Physical Properties

Property code	Value	Unit	Source
hf	-486.99	kJ/mol	Cheméo Relay (1.0)
hfus	21.18	kJ/mol	Joback Method
hvap	63.87	kJ/mol	Cheméo Relay (1.0)
logp	1.285		Crippen Method
mcvol	135.820	ml/mol	McGowan Method
tb	500.44	K	Cheméo Relay (1.0)
tf	237.38	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.69	J/mol×K	520.40	Joback Method
cpg	335.82	J/mol×K	555.04	Joback Method
cpg	350.14	J/mol×K	589.68	Joback Method
cpg	363.67	J/mol×K	624.32	Joback Method
cpg	376.42	J/mol×K	658.96	Joback Method
cpg	388.43	J/mol×K	693.60	Joback Method
cpg	399.71	J/mol×K	728.24	Joback Method

Sources

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):	
High-Pressure Phase Behavior of Carbon Dioxide + Tetrahydrofurfuryl Acrylate and Carbon Dioxide + Tetrahydrofurfuryl Methacrylate Binary Mixture Systems:	https://www.doi.org/10.1021/je2004879
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2455245&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point