Acetic acid, tribromo, 1,2-dimethylpropyl ester

Inchi: InChI=1S/C7H11Br3O2/c1-4(2)5(3)12-6(11)7(8,9)10/h4-5H,1-3H3
InchiKey: AIOAXQWRROPLIL-UHFFFAOYSA-N
Formula: C7H11Br3O2
SMILES: CC(C)C(C)OC(=O)C(Br)(Br)Br
Mol. weight [g/mol]: 366.87

Physical Properties

Property code	Value	Unit	Source
gf	-184.94	kJ/mol	Joback Method
hf	-372.93	kJ/mol	Joback Method
hfus	18.07	kJ/mol	Joback Method
hvap	57.56	kJ/mol	Joback Method
log10ws	-3.88		Crippen Method
logp	3.413		Crippen Method
mcvol	169.430	ml/mol	McGowan Method
pc	3896.50	kPa	Joback Method
rinpol	1446.00		NIST Webbook
tb	630.22	K	Joback Method
tc	871.47	K	Joback Method
tf	392.63	K	Joback Method
vc	0.615	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.40	J/mol×K	630.22	Joback Method
cpg	391.97	J/mol×K	831.26	Joback Method
cpg	384.62	J/mol×K	791.05	Joback Method
cpg	376.66	J/mol×K	750.84	Joback Method
cpg	368.02	J/mol×K	710.64	Joback Method
cpg	358.62	J/mol×K	670.43	Joback Method
cpg	398.78	J/mol×K	871.47	Joback Method
dvisc	0.0001764	Pa×s	630.22	Joback Method
dvisc	0.0002303	Pa×s	590.62	Joback Method

dvisc	0.0003125	Pa×s	551.02	Joback Method
dvisc	0.0004446	Pa×s	511.43	Joback Method
dvisc	0.0006710	Pa×s	471.83	Joback Method
dvisc	0.0010921	Pa×s	432.23	Joback Method
dvisc	0.0019609	Pa×s	392.63	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R115792&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
dvisc: Dynamic viscosity
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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume