4-Penten-1-ol, bromoacetate

Inchi: InChI=1S/C7H11BrO2/c1-2-3-4-5-10-7(9)6-8/h2H,1,3-6H2
InchiKey: USDMNMTWYGUAAS-UHFFFAOYSA-N
Formula: C7H11BrO2
SMILES: C=CCCCOC(=O)CBr
Mol. weight [g/mol]: 207.06

Physical Properties

Property code	Value	Unit	Source
gf	-123.70	kJ/mol	Joback Method
hf	-280.85	kJ/mol	Joback Method
hfus	20.68	kJ/mol	Joback Method
hvap	46.10	kJ/mol	Joback Method
log10ws	-1.90		Crippen Method
logp	1.891		Crippen Method
mcvol	130.130	ml/mol	McGowan Method
pc	3329.68	kPa	Joback Method
rinpol	1146.00		NIST Webbook
ripol	1700.00		NIST Webbook
ripol	1700.00		NIST Webbook
tb	498.69	K	Joback Method
tc	694.72	K	Joback Method
tf	298.85	K	Joback Method
vc	0.494	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.14	J/mol×K	498.69	Joback Method
cpg	305.41	J/mol×K	662.04	Joback Method
cpg	297.07	J/mol×K	629.37	Joback Method
cpg	288.29	J/mol×K	596.70	Joback Method
cpg	279.05	J/mol×K	564.03	Joback Method
cpg	269.33	J/mol×K	531.36	Joback Method
cpg	313.32	J/mol×K	694.72	Joback Method

dvisc	0.0003045	Pa×s	498.69	Joback Method
dvisc	0.0003808	Pa×s	465.38	Joback Method
dvisc	0.0004928	Pa×s	432.08	Joback Method
dvisc	0.0006659	Pa×s	398.77	Joback Method
dvisc	0.0009507	Pa×s	365.46	Joback Method
dvisc	0.0014575	Pa×s	332.16	Joback Method
dvisc	0.0024579	Pa×s	298.85	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R26461&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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