2,3-Dimethyl-1,2-dibromopentane

Inchi: InChI=1S/C7H14Br2/c1-4-6(2)7(3,9)5-8/h6H,4-5H2,1-3H3
InchiKey: OTWXHGYTYFOXAN-UHFFFAOYSA-N
Formula: C7H14Br2
SMILES: CCC(C)C(C)(Br)CBr
Mol. weight [g/mol]: 257.99

Physical Properties

Property code	Value	Unit	Source
gf	37.10	kJ/mol	Joback Method
hf	-149.18	kJ/mol	Joback Method
hfus	13.52	kJ/mol	Joback Method
hvap	42.36	kJ/mol	Joback Method
log10ws	-3.49		Crippen Method
logp	3.581		Crippen Method
mcvol	144.490	ml/mol	McGowan Method
pc	3360.64	kPa	Joback Method
rinpol	1054.00		NIST Webbook
rinpol	1054.00		NIST Webbook
tb	488.21	K	Joback Method
tc	705.09	K	Joback Method
tf	275.67	K	Joback Method
vc	0.534	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.69	J/mol×K	488.21	Joback Method
cpg	334.80	J/mol×K	668.94	Joback Method
cpg	325.12	J/mol×K	632.80	Joback Method
cpg	314.73	J/mol×K	596.65	Joback Method
cpg	303.57	J/mol×K	560.50	Joback Method
cpg	291.58	J/mol×K	524.36	Joback Method
cpg	343.82	J/mol×K	705.09	Joback Method
dvisc	0.0003149	Pa×s	488.21	Joback Method

dvisc	0.0004213	Pa×s	452.79	Joback Method
dvisc	0.0005924	Pa×s	417.36	Joback Method
dvisc	0.0008871	Pa×s	381.94	Joback Method
dvisc	0.0014430	Pa×s	346.52	Joback Method
dvisc	0.0026220	Pa×s	311.09	Joback Method
dvisc	0.0055548	Pa×s	275.67	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R559370&Units=SI

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