1,2-Propadiene, 1-bromo-

Other names: Propa-1,2-diene, 1-bromo-
1-Bromopropadiene
Inchi: InChI=1S/C3H3Br/c1-2-3-4/h3H,1H2
InchiKey: UUIORUQWCRSGJS-UHFFFAOYSA-N
Formula: C3H3Br
SMILES: C=C=CBr
Mol. weight [g/mol]: 118.96
CAS: 10024-18-7

Physical Properties

Property code	Value	Unit	Source
gf	204.82	kJ/mol	Joback Method
hf	209.29	kJ/mol	Joback Method
hfus	9.66	kJ/mol	Joback Method
hvap	28.47	kJ/mol	Joback Method
ie	9.46	eV	NIST Webbook
log10ws	-1.73		Crippen Method
logp	1.680		Crippen Method
mcvol	62.030	ml/mol	McGowan Method
pc	5889.94	kPa	Joback Method
tb	334.15	K	Joback Method
tc	538.01	K	Joback Method
tf	188.12	K	Joback Method
vc	0.227	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	77.67	J/mol×K	334.15	Joback Method
cpg	81.29	J/mol×K	368.13	Joback Method
cpg	84.76	J/mol×K	402.10	Joback Method
cpg	88.09	J/mol×K	436.08	Joback Method
cpg	91.28	J/mol×K	470.05	Joback Method
cpg	94.34	J/mol×K	504.03	Joback Method

cpg	97.26	J/mol×K	538.01	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10024187&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

Legend

cpg:	Ideal gas heat capacity
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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume