2-Pentene, 4-bromo-

Inchi: InChI=1S/C5H9Br/c1-3-4-5(2)6/h3-5H,1-2H3/b4-3+
InchiKey: LIPODSDLKCMVON-ONEGZZNKSA-N
Formula: C5H9Br
SMILES: CC=CC(C)Br
Mol. weight [g/mol]: 149.03
CAS: 1809-26-3

Physical Properties

Property code	Value	Unit	Source
gf	83.32	kJ/mol	Joback Method
hf	-8.26	kJ/mol	Joback Method
hfus	10.67	kJ/mol	Joback Method
hvap	32.73	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	2.346		Crippen Method
mcvol	94.510	ml/mol	McGowan Method
pc	4062.13	kPa	Joback Method
tb	383.68	K	Joback Method
tc	583.31	K	Joback Method
tf	185.83	K	Joback Method
vc	0.351	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	146.43	J/mol×K	383.68	Joback Method
cpg	155.74	J/mol×K	416.95	Joback Method
cpg	164.50	J/mol×K	450.22	Joback Method
cpg	172.74	J/mol×K	483.49	Joback Method
cpg	180.51	J/mol×K	516.77	Joback Method
cpg	187.81	J/mol×K	550.04	Joback Method
cpg	194.69	J/mol×K	583.31	Joback Method
dvisc	0.0057494	Pa×s	185.83	Joback Method
dvisc	0.0023945	Pa×s	218.80	Joback Method

dvisc	0.0012544	Pa×s	251.78	Joback Method
dvisc	0.0007633	Pa×s	284.75	Joback Method
dvisc	0.0005149	Pa×s	317.73	Joback Method
dvisc	0.0003741	Pa×s	350.70	Joback Method
dvisc	0.0002871	Pa×s	383.68	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=C1809263&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume