

1-Bromo-6-methyloctane

Inchi:	InChI=1S/C9H19Br/c1-3-9(2)7-5-4-6-8-10/h9H,3-8H2,1-2H3
InchiKey:	TWDAVWNDGHYAJZ-UHFFFAOYSA-N
Formula:	C9H19Br
SMILES:	CCC(C)CCCCBr
Mol. weight [g/mol]:	207.15
CAS:	---

Physical Properties

Property code	Value	Unit	Source
gf	36.78	kJ/mol	Joback Method
hf	-208.04	kJ/mol	Joback Method
hfus	20.83	kJ/mol	Joback Method
hvap	41.67	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	3.988		Crippen Method
mcvol	155.170	ml/mol	McGowan Method
pc	2487.55	kPa	Joback Method
rinpol	1225.00		NIST Webbook
tb	471.04	K	Joback Method
tc	654.26	K	Joback Method
tf	235.99	K	Joback Method
vc	0.596	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.17	J/molxK	471.04	Joback Method
cpg	334.50	J/molxK	501.58	Joback Method
cpg	348.18	J/molxK	532.11	Joback Method
cpg	361.24	J/molxK	562.65	Joback Method
cpg	373.71	J/molxK	593.19	Joback Method
cpg	385.59	J/molxK	623.72	Joback Method
cpg	396.92	J/molxK	654.26	Joback Method
dvisc	0.0062321	Paxs	235.99	Joback Method

dvisc	0.0025512	Paxs	275.17	Joback Method
dvisc	0.0013048	Paxs	314.34	Joback Method
dvisc	0.0007742	Paxs	353.51	Joback Method
dvisc	0.0005098	Paxs	392.69	Joback Method
dvisc	0.0003622	Paxs	431.86	Joback Method
dvisc	0.0002723	Paxs	471.04	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.53267e+01
Coeff. B	-4.38820e+03
Coeff. C	-7.58550e+01
Temperature range (K), min.	367.64
Temperature range (K), max.	514.01

Sources

The Yaws Handbook of Vapor

Pressure:
Crippen Method:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

<http://pubs.acs.org/doi/abs/10.1021/ci990307i>

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=R412583&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
pvap:	Vapor pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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