exo-2-Bromonorbornane

Other names:	exo-2-Bromobicyclo[2.2.1]heptane
	Bicyclo[2.2.1]heptane, 2-bromo-, exo-
	exo-Norbornyl bromide
	Norbornane, 2-bromo-, exo-
	2-exo-Norbornyl bromide
	Endo-2-bromobicyclo[2.2.1]heptane
Inchi:	InChI=1S/C7H11Br/c8-7-4-5-1-2-6(7)3-5/h5-7H,1-4H2/t5?,6?,7-/m1/s1
InchiKey:	QXYOAWHKJRWNID-KPGICGJXSA-N
Formula:	C7H11Br
SMILES:	BrC1CC2CCC1C2
Mol. weight [g/mol]:	175.07
CAS:	2534-77-2

Physical Properties

Property code	Value	Unit	Source
gf	124.07	kJ/mol	Joback Method
hf	-42.38	kJ/mol	Joback Method
hfus	14.41	kJ/mol	Joback Method
hvap	37.30	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	2.570		Crippen Method
mcvol	105.270	ml/mol	McGowan Method
pc	4062.13	kPa	Joback Method
tb	438.80	K	Joback Method
tc	662.17	K	Joback Method
tf	256.57	K	Joback Method
vc	0.395	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	205.03	J/mol×K	438.80	Joback Method
cpg	220.89	J/mol×K	476.03	Joback Method
cpg	235.60	J/mol×K	513.26	Joback Method

cpg	249.23	J/mol×K	550.48	Joback Method
cpg	261.87	J/mol×K	587.71	Joback Method
cpg	273.59	J/mol×K	624.94	Joback Method
cpg	284.46	J/mol×K	662.17	Joback Method
dvisc	0.0011366	Pa×s	256.57	Joback Method
dvisc	0.0010516	Pa×s	286.94	Joback Method
dvisc	0.0009876	Pa×s	317.31	Joback Method
dvisc	0.0009377	Pa×s	347.69	Joback Method
dvisc	0.0008977	Pa×s	378.06	Joback Method
dvisc	0.0008651	Pa×s	408.43	Joback Method
dvisc	0.0008379	Pa×s	438.80	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	355.20	K	3.90	NIST Webbook

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=C2534772&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume