((1R)-endo)-(+)-3-Bromocamphor

Other names: (+)-3-Bromocamphor
Bicyclo[2.2.1]heptan-2-one, 3-bromo-1,7,7-trimethyl-, (1R-endo)-
(1R-endo)-3-bromo-1,7,7-trimethylbicyclo[2.2.1]heptan-2-one
Inchi: InChI=1S/C10H15BrO/c1-9(2)6-4-5-10(9,3)8(12)7(6)11/h6-7H,4-5H2,1-3H3/t6?,7-,10-/m0
InchiKey: NJQADTYRAYFBJN-MXMVMAASSA-N
Formula: C10H15BrO
SMILES: CC12CCC(C(Br)C1=O)C2(C)C
Mol. weight [g/mol]: 231.13
CAS: 10293-06-8

Physical Properties

Property code	Value	Unit	Source
gf	8.05	kJ/mol	Joback Method
hf	-231.86	kJ/mol	Joback Method
hfus	10.17	kJ/mol	Joback Method
hvap	45.61	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.775		Crippen Method
mcvol	149.110	ml/mol	McGowan Method
pc	3210.04	kPa	Joback Method
tb	571.07	K	Joback Method
tc	818.98	K	Joback Method
tf	402.16	K	Joback Method
vc	0.565	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.32	J/mol×K	571.07	Joback Method
cpg	386.44	J/mol×K	612.39	Joback Method
cpg	402.39	J/mol×K	653.71	Joback Method
cpg	417.49	J/mol×K	695.02	Joback Method
cpg	432.04	J/mol×K	736.34	Joback Method
cpg	446.36	J/mol×K	777.66	Joback Method

cpg	460.77	J/mol×K	818.98	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10293068&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
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