

Borneol

Other names:

1,7,7-Trimethyl-bicyclo(2.2.1)heptan-2-ol, endo-
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-ol
2-Bornanol, endo-
2-Camphanol
2-Hydroxycamphane
2-endo-Bornyl alcohol
Baros camphor
Bhimsaim camphor
Bhimsiam camphor
Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-
Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, endo-
Borneo camphor
Bornyl alcohol
Camphane, 2-hydroxy-
Camphol
Camphor
Dryobalanops camphor
Endo-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol
Endo-2-bornanol
Endo-2-camphanol
Endo-2-hydroxycamphane
Malay camphor
Malayan camphor
Sumatra camphor
UN 1312
dl-Borneol
endo-2-Hydroxy-1,7,7-trimethylnorbornane
endo-Borneol
trans-Borneol

Inchi:

InChI=1S/C10H18O/c1-9(2)7-4-5-10(9,3)8(11)6-7/h7-8,11H,4-6H2,1-3H3/t7?,8-,10?/m1/s

InchiKey:

DTGKSKDOIYIVQL-CCNFQMFXTA-N

Formula:

C₁₀H₁₈O

SMILES:

CC1(C)C2CCC1(C)C(O)C2

Mol. weight [g/mol]:

154.25

CAS:

507-70-0

Physical Properties

Property code	Value	Unit	Source
chs	-6231.20	kJ/mol	NIST Webbook
gf	-20.50	kJ/mol	Joback Method
hf	-272.72	kJ/mol	Joback Method
hfus	9.46	kJ/mol	Joback Method
hvap	51.61	kJ/mol	Joback Method
log10ws	-2.32		Aqueous Solubility Prediction Method
log10ws	-2.32		Estimated Solubility Method
logp	2.194		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
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Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	370.25	J/mol×K	562.76	Joback Method
cpg	385.05	J/mol×K	596.25	Joback Method
cpg	398.92	J/mol×K	629.74	Joback Method
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Legend

chs:	Standard solid enthalpy of combustion
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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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