

Camphor

Other names:	(.+/-)-Camphor 1,7,7-Trimethyl-bicyclo[2.2.1]heptan-2-one 1,7,7-Trimethylbicyclo[2.2.1]-2-heptanone 1,7,7-Trimethylnorcamphor 2-Bornanone 2-Camphanone 2-Camphonone 2-Kamfanon 2-Keto-1,7,7-trimethylnorcamphane Alphanon Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl- Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-, (.+/-)- Bicyclo[2.2.1]heptane-2-one, 1,7,7-trimethyl- Bornane, 2-oxo- Borneo camphor Camphor, synthetic DL-Camphor Gum camphor Huile de camphre Kampfer Matricaria camphor Norcamphor, 1,7,7-trimethyl- Root bark oil Spirit of camphor UN 2717 bornan-2-one
Inchi:	InChI=1S/C10H16O/c1-9(2)7-4-5-10(9,3)8(11)6-7/h7H,4-6H2,1-3H3
InchiKey:	DSSYKIVIOFKYAU-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	CC12CCC(CC1=O)C2(C)C
Mol. weight [g/mol]:	152.23
CAS:	76-22-2

Physical Properties

Property code	Value	Unit	Source
affp	859.20	kJ/mol	NIST Webbook

basg	827.30	kJ/mol	NIST Webbook
chs	-5910.70	kJ/mol	NIST Webbook
chs	-5898.60 ± 3.80	kJ/mol	NIST Webbook
chs	-5902.00 ± 3.00	kJ/mol	NIST Webbook
chs	-5822.00 ± 66.00	kJ/mol	NIST Webbook
chs	-5891.20	kJ/mol	NIST Webbook
gf	1.44	kJ/mol	Joback Method
hf	-267.00 ± 3.00	kJ/mol	NIST Webbook
hfs	-399.00 ± 66.00	kJ/mol	NIST Webbook
hfs	-319.00 ± 3.00	kJ/mol	NIST Webbook
hfus	3.81	kJ/mol	Joback Method
hsub	51.90 ± 0.80	kJ/mol	NIST Webbook
hvap	54.50	kJ/mol	NIST Webbook
hvap	54.40	kJ/mol	NIST Webbook
hvap	55.20	kJ/mol	NIST Webbook
ie	8.76 ± 0.03	eV	NIST Webbook
log10ws	-2.35		Crippen Method
logp	2.402		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	3082.99	kPa	Joback Method
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tb	482.25 ± 0.50	K	NIST Webbook
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tc	742.46	K	Joback Method
tf	449.00 ± 1.00	K	NIST Webbook
tf	451.50 ± 0.10	K	NIST Webbook
vc	0.503	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.06	J/mol×K	703.65	Joback Method
cpg	324.29	J/mol×K	509.58	Joback Method
cpg	342.61	J/mol×K	548.39	Joback Method
cpg	359.48	J/mol×K	587.21	Joback Method
cpg	375.18	J/mol×K	626.02	Joback Method
cpg	389.96	J/mol×K	664.83	Joback Method
cpg	417.76	J/mol×K	742.46	Joback Method
cps	271.20	J/mol×K	298.10	NIST Webbook
hfust	6.82	kJ/mol	451.50	NIST Webbook
hsubt	54.70	kJ/mol	301.50	NIST Webbook
hsubt	51.50 ± 2.60	kJ/mol	283.00	NIST Webbook
hsubt	53.60	kJ/mol	363.00	NIST Webbook
sfust	15.10	J/mol×K	451.50	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	1.54439e+02
Coeff. B	-1.29248e+04
Coeff. C	-2.02651e+01
Coeff. D	9.58140e-06
Temperature range (K), min.	453.25
Temperature range (K), max.	709.00

Sources

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Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C76222&Units=SI
KDB Vapor Pressure Data:	https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=1230

Legend

affp:	Proton affinity
basg:	Gas basicity
chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
cps:	Solid phase heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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