

trans-Carvenol

Inchi:	InChI=1S/C10H18O/c1-7(2)9-5-4-8(3)10(11)6-9/h6-8,10-11H,4-5H2,1-3H3/t8-,10-/m0/s1
InchiKey:	WEJSIMPWEOUMJB-WPRPVWTQSA-N
Formula:	C10H18O
SMILES:	CC(C)C1=CC(O)C(C)CC1
Mol. weight [g/mol]:	154.25

Physical Properties

Property code	Value	Unit	Source
gf	-68.87	kJ/mol	Joback Method
hf	-326.95	kJ/mol	Joback Method
hfus	15.96	kJ/mol	Joback Method
hvap	55.22	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.360		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
ripol	1820.00		NIST Webbook
ripol	1835.00		NIST Webbook
tb	538.96	K	Joback Method
tc	731.46	K	Joback Method
tf	264.70	K	Joback Method
vc	0.526	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.74	J/molxK	538.96	Joback Method
cpg	367.50	J/molxK	571.04	Joback Method
cpg	382.50	J/molxK	603.13	Joback Method
cpg	396.76	J/molxK	635.21	Joback Method
cpg	410.31	J/molxK	667.29	Joback Method
cpg	423.14	J/molxK	699.37	Joback Method
cpg	435.28	J/molxK	731.46	Joback Method
dvisc	0.0240696	Paxs	264.70	Joback Method

dvisc	0.0052446	Paxs	310.41	Joback Method
dvisc	0.0016898	Paxs	356.12	Joback Method
dvisc	0.0007045	Paxs	401.83	Joback Method
dvisc	0.0003512	Paxs	447.54	Joback Method
dvisc	0.0001992	Paxs	493.25	Joback Method
dvisc	0.0001244	Paxs	538.96	Joback Method

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=R344688&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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