

«delta»-Terpinene

Inchi:	InChI=1S/C10H16/c1-8(2)10-6-4-9(3)5-7-10/h4,6-9H,5H2,1-3H3
InchiKey:	AAIXZDBTEWDL SG-UHFFFAOYSA-N
Formula:	C10H16
SMILES:	CC1C=CC(C(C)C)=CC1
Mol. weight [g/mol]:	136.23

Physical Properties

Property code	Value	Unit	Source
gf	105.62	kJ/mol	Joback Method
hf	-96.60	kJ/mol	Joback Method
hfus	12.02	kJ/mol	Joback Method
hvap	39.14	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	3.165		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2746.90	kPa	Joback Method
rinpol	1050.00		NIST Webbook
rinpol	1020.00		NIST Webbook
rinpol	1059.00		NIST Webbook
rinpol	1057.00		NIST Webbook
rinpol	1051.00		NIST Webbook
rinpol	1057.00		NIST Webbook
ripol	1284.00		NIST Webbook
tb	450.61	K	Joback Method
tc	657.58	K	Joback Method
tf	208.88	K	Joback Method
vc	0.494	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.83	J/mol×K	450.61	Joback Method
cpg	349.14	J/mol×K	623.09	Joback Method
cpg	335.32	J/mol×K	588.59	Joback Method

cpg	320.71	J/molxK	554.10	Joback Method
cpg	305.27	J/molxK	519.60	Joback Method
cpg	288.98	J/molxK	485.11	Joback Method
cpg	362.19	J/molxK	657.58	Joback Method
dvisc	0.0002251	Paxs	450.61	Joback Method
dvisc	0.0002905	Paxs	410.32	Joback Method
dvisc	0.0003964	Paxs	370.03	Joback Method
dvisc	0.0005836	Paxs	329.75	Joback Method
dvisc	0.0009568	Paxs	289.46	Joback Method
dvisc	0.0018408	Paxs	249.17	Joback Method
dvisc	0.0045582	Paxs	208.88	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=R224574&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
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

Latest version available from:

<https://www.cheméo.com/cid/75-617-4/delta-Terpinene.pdf>

Generated by Cheméo on 2024-04-24 14:21:57.976129421 +0000 UTC m=+16257766.896706734.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.