

(+)-(E)-limonene oxide

Other names:	trans-d--Limonene oxide (+)-trans-Limonene 1,2-epoxide R-(+)-Limonene oxide (+)-trans-limonene oxide
Inchi:	InChI=1S/C10H16O/c1-7(2)8-4-5-10(3)9(6-8)11-10/h8-9H,1,4-6H2,2-3H3/t8-,9?,10-/m1/s
InchiKey:	CCEFMUBVSUDRLG-SMILAEQMSA-N
Formula:	C10H16O
SMILES:	C=C(C)[C@@H]1CC[C@@]2(C)OC2C1
Mol. weight [g/mol]:	152.24

Physical Properties

Property code	Value	Unit	Source
hfus	15.99	kJ/mol	Joback Method
ie	9.04	eV	Cheméo Relay (1.0)
logp	2.520		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
rinpol	1130.00		NIST Webbook
rinpol	1139.00		NIST Webbook
rinpol	1139.00		NIST Webbook
ripol	1470.00		NIST Webbook
ripol	1470.00		NIST Webbook
ripol	1472.00		NIST Webbook
tf	238.55	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.56	J/mol×K	465.03	Joback Method
cpg	322.20	J/mol×K	500.65	Joback Method
cpg	339.41	J/mol×K	536.28	Joback Method
cpg	355.33	J/mol×K	571.90	Joback Method
cpg	370.12	J/mol×K	607.52	Joback Method
cpg	383.92	J/mol×K	643.14	Joback Method
cpg	396.88	J/mol×K	678.77	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6909304&Units=SI

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tf:	Normal melting (fusion) point

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