

(Z)-Calacorene

Inchi:	InChI=1S/C15H20/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h5-10,12-13H,1-4H3/t12
InchiKey:	LCROQSRTEMTLQQ-CHWSQXEVSAN
Formula:	C15H20
SMILES:	<chem>Cc1ccc2c(c1)C(C(C)C)C=CC2C</chem>
Mol. weight [g/mol]:	200.32

Physical Properties

Property code	Value	Unit	Source
gf	237.03	kJ/mol	Joback Method
hf	-40.54	kJ/mol	Joback Method
hfus	22.67	kJ/mol	Joback Method
hvap	52.26	kJ/mol	Joback Method
log10ws	-4.66		Crippen Method
logp	4.408		Crippen Method
mcvol	183.290	ml/mol	McGowan Method
pc	2083.12	kPa	Joback Method
ripol	1880.00		NIST Webbook
tb	584.30	K	Joback Method
tc	804.86	K	Joback Method
tf	306.21	K	Joback Method
vc	0.696	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.66	J/molxK	584.30	Joback Method
cpg	482.45	J/molxK	621.06	Joback Method
cpg	501.03	J/molxK	657.82	Joback Method
cpg	518.45	J/molxK	694.58	Joback Method
cpg	534.78	J/molxK	731.34	Joback Method
cpg	550.06	J/molxK	768.10	Joback Method
cpg	564.36	J/molxK	804.86	Joback Method
dvisc	0.0015832	Paxs	306.21	Joback Method
dvisc	0.0010106	Paxs	352.56	Joback Method

dvisc	0.0007160	Paxs	398.91	Joback Method
dvisc	0.0005450	Paxs	445.25	Joback Method
dvisc	0.0004368	Paxs	491.60	Joback Method
dvisc	0.0003637	Paxs	537.95	Joback Method
dvisc	0.0003117	Paxs	584.30	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=R585032&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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