

(5R,10R)-10-Methyl-6-methylene-2-(propan-2-ylidene)

Other names:	Spiro[4.5]dec-7-ene, 10-methyl-6-methylene-2-(1-methylethylidene)-, (5R,10R)-Spiro[4.5]dec-7-ene, 10-methyl-6-methylene-2-(1-methylethylidene)-, (5R-cis)-Spiro[4.5]dec-7-ene, 2-isopropylidene-10-methyl-6-methylene-, (5R,10R)-(-)-«beta»-Vetispirene
Inchi:	InChI=1S/C15H22/c1-11(2)14-8-9-15(10-14)12(3)6-5-7-13(15)4/h5-6,13H,3,7-10H2,1-2,4
InchiKey:	CSRZVTLTICSDRH-DZGCQCCKSA-N
Formula:	C15H22
SMILES:	<chem>C=C1C=CCC(C)C12CCC(=C(C)C)C2</chem>
Mol. weight [g/mol]:	202.34
CAS:	28908-27-2

Physical Properties

Property code	Value	Unit	Source
gf	262.98	kJ/mol	Joback Method
hf	-8.47	kJ/mol	Joback Method
hfus	15.25	kJ/mol	Joback Method
hvap	49.67	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.645		Crippen Method
mcvol	187.590	ml/mol	McGowan Method
pc	2135.43	kPa	Joback Method
rinpol	1495.00		NIST Webbook
rinpol	1506.00		NIST Webbook
ripol	1737.00		NIST Webbook
ripol	1737.00		NIST Webbook
tb	578.24	K	Joback Method
tc	806.39	K	Joback Method
tf	315.35	K	Joback Method
vc	0.710	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	479.59	J/molxK	578.24	Joback Method

cpg	501.10	J/mol×K	616.26	Joback Method
cpg	521.21	J/mol×K	654.29	Joback Method
cpg	540.12	J/mol×K	692.31	Joback Method
cpg	557.97	J/mol×K	730.34	Joback Method
cpg	574.96	J/mol×K	768.36	Joback Method
cpg	591.25	J/mol×K	806.39	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C28908272&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

Legend

cpg:	Ideal gas heat capacity
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:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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