

# Isoitalicene

<b>Inchi:</b>	InChI=1S/C15H24/c1-10-7-8-15-11(2)5-6-12(15)14(3,4)13(15)9-10/h9,11-13H,5-8H2,1-4H
<b>InchiKey:</b>	BWAXOYJGXIEEOE-ABHRYQDASA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	CC1=CC2C(C)(C)C3CCC(C)C23CC1
<b>Mol. weight [g/mol]:</b>	204.35
<b>CAS:</b>	94482-89-0

## Physical Properties

Property code	Value	Unit	Source
gf	227.40	kJ/mol	Joback Method
hf	-110.74	kJ/mol	Joback Method
hfus	15.19	kJ/mol	Joback Method
hvap	47.10	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	4.415		Crippen Method
mcvol	185.330	ml/mol	McGowan Method
pc	2117.78	kPa	Joback Method
rinpol	1398.00		NIST Webbook
rinpol	1384.80		NIST Webbook
rinpol	1385.00		NIST Webbook
rinpol	1381.00		NIST Webbook
rinpol	1395.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1398.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1397.00		NIST Webbook
rinpol	1374.00		NIST Webbook
rinpol	1379.00		NIST Webbook
rinpol	1376.00		NIST Webbook
ripol	1497.00		NIST Webbook
ripol	1491.00		NIST Webbook
ripol	1491.00		NIST Webbook
ripol	1491.00		NIST Webbook
ripol	1498.00		NIST Webbook
ripol	1475.00		NIST Webbook
tb	566.64	K	Joback Method
tc	792.17	K	Joback Method

tf	358.19	K	Joback Method
vc	0.711	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.55	J/mol×K	566.64	Joback Method
cpg	526.55	J/mol×K	604.23	Joback Method
cpg	547.97	J/mol×K	641.82	Joback Method
cpg	568.10	J/mol×K	679.41	Joback Method
cpg	587.25	J/mol×K	716.99	Joback Method
cpg	605.70	J/mol×K	754.58	Joback Method
cpg	623.74	J/mol×K	792.17	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C94482890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C94482890&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	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/54-961-5/Isoitalicene.pdf>

Generated by Cheméo on 2024-04-30 15:56:00.565835774 +0000 UTC m=+16781809.486413089.

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