

# «gamma»-Curcumene

<b>Inchi:</b>	InChI=1S/C15H24/c1-12(2)6-5-7-14(4)15-10-8-13(3)9-11-15/h6,8,10,14H,5,7,9,11H2,1-4
<b>InchiKey:</b>	NGIVKZGKEPRIGG-UHFFFAOYSA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	CC(C)=CCCC(C)C1=CC=C(C)CC1
<b>Mol. weight [g/mol]:</b>	204.35
<b>CAS:</b>	451-55-8

## Physical Properties

Property code	Value	Unit	Source
gf	217.47	kJ/mol	Joback Method
hf	-83.50	kJ/mol	Joback Method
hfus	22.41	kJ/mol	Joback Method
hvap	51.28	kJ/mol	Joback Method
log10ws	-5.32		Crippen Method
logp	5.035		Crippen Method
mcvol	198.450	ml/mol	McGowan Method
pc	1869.17	kPa	Joback Method
rinpol	1484.00		NIST Webbook
rinpol	1487.00		NIST Webbook
rinpol	1473.00		NIST Webbook
rinpol	1478.00		NIST Webbook
rinpol	1479.00		NIST Webbook
rinpol	1483.00		NIST Webbook
rinpol	1478.00		NIST Webbook
rinpol	1479.00		NIST Webbook
rinpol	1483.00		NIST Webbook
rinpol	1483.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1483.40		NIST Webbook
rinpol	1478.00		NIST Webbook
rinpol	1479.00		NIST Webbook
ripol	1474.00		NIST Webbook
ripol	1474.00		NIST Webbook
tb	578.70	K	Joback Method
tc	785.09	K	Joback Method
tf	262.95	K	Joback Method
vc	0.756	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	494.15	J/mol×K	578.70	Joback Method
cpg	513.95	J/mol×K	613.10	Joback Method
cpg	532.64	J/mol×K	647.50	Joback Method
cpg	550.28	J/mol×K	681.89	Joback Method
cpg	566.91	J/mol×K	716.29	Joback Method
cpg	582.60	J/mol×K	750.69	Joback Method
cpg	597.38	J/mol×K	785.09	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=C451558&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C451558&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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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