

# «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-AWEZLNQCLSA-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>	28976-68-3

## 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	1472.00		NIST Webbook
rinpol	1474.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1485.00		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	1473.00		NIST Webbook
rinpol	1483.00		NIST Webbook
rinpol	1485.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1477.00		NIST Webbook
rinpol	1481.00		NIST Webbook
rinpol	1475.00		NIST Webbook
rinpol	1471.00		NIST Webbook
rinpol	1460.00		NIST Webbook
rinpol	1487.00		NIST Webbook
rinpol	1479.00		NIST Webbook

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rinpol	1479.00	NIST Webbook
rinpol	1481.00	NIST Webbook
rinpol	1482.00	NIST Webbook
rinpol	1483.00	NIST Webbook
rinpol	1488.00	NIST Webbook
rinpol	1474.00	NIST Webbook
rinpol	1478.00	NIST Webbook
rinpol	1480.00	NIST Webbook
rinpol	1480.00	NIST Webbook
rinpol	1480.00	NIST Webbook
rinpol	1484.00	NIST Webbook
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rinpol	1449.00	NIST Webbook
rinpol	1480.00	NIST Webbook
rinpol	1483.00	NIST Webbook
rinpol	1483.00	NIST Webbook
ripol	1689.00	NIST Webbook
ripol	1690.00	NIST Webbook
ripol	1682.00	NIST Webbook
ripol	1695.00	NIST Webbook
ripol	1669.00	NIST Webbook
ripol	1740.00	NIST Webbook
ripol	1704.00	NIST Webbook
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ripol	1692.00	NIST Webbook
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ripol	1690.00	NIST Webbook
ripol	1690.00	NIST Webbook
ripol	1685.00	NIST Webbook
ripol	1690.00	NIST Webbook
ripol	1683.00	NIST Webbook
ripol	1680.00	NIST Webbook
ripol	1683.00	NIST Webbook

ripol	1683.00		NIST Webbook
ripol	1664.00		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>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=C28976683&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C28976683&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvac:</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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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