

# m-Cymenene

<b>Other names:</b>	1-Methyl-3-(prop-1-en-2-yl)benzene 1-methyl-3«alpha»-methylstyrene 1-methyl-3Â«alphaÂ»-methylstyrene Benzene, 1-methyl-3-(1-methylethenyl)- m,«alpha»-dimethylstyrene m,Â«alphaÂ»-dimethylstyrene
<b>Inchi:</b>	InChI=1S/C10H12/c1-8(2)10-6-4-5-9(3)7-10/h4-7H,1H2,2-3H3
<b>InchiKey:</b>	XXTQHVKTTLBFRI-UHFFFAOYSA-N
<b>Formula:</b>	C10H12
<b>SMILES:</b>	C=C(C)c1cccc(C)c1
<b>Mol. weight [g/mol]:</b>	132.20
<b>CAS:</b>	1124-20-5

## Physical Properties

Property code	Value	Unit	Source
affp	867.60	kJ/mol	NIST Webbook
basg	838.70	kJ/mol	NIST Webbook
gf	215.39	kJ/mol	Joback Method
hf	90.97	kJ/mol	Joback Method
hfus	12.72	kJ/mol	Joback Method
hvap	40.20	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.028		Crippen Method
mcvol	123.700	ml/mol	McGowan Method
pc	3035.62	kPa	Joback Method
rinpol	1061.00		NIST Webbook
rinpol	1069.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1082.00		NIST Webbook
rinpol	1062.00		NIST Webbook
rinpol	1070.00		NIST Webbook
rinpol	1085.00		NIST Webbook
rinpol	1065.00		NIST Webbook
rinpol	1080.00		NIST Webbook
rinpol	1075.00		NIST Webbook
rinpol	1082.00		NIST Webbook
rinpol	1084.10		NIST Webbook

rinpol	1061.00		NIST Webbook
rinpol	1082.00		NIST Webbook
rinpol	1082.00		NIST Webbook
rinpol	1085.00		NIST Webbook
rinpol	1072.00		NIST Webbook
ripol	1424.00		NIST Webbook
ripol	1456.00		NIST Webbook
tb	456.42	K	Joback Method
tc	671.23	K	Joback Method
tf	225.68	K	Joback Method
vc	0.469	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.50	J/mol×K	456.42	Joback Method
cpg	254.75	J/mol×K	492.22	Joback Method
cpg	268.18	J/mol×K	528.02	Joback Method
cpg	280.82	J/mol×K	563.82	Joback Method
cpg	292.71	J/mol×K	599.62	Joback Method
cpg	303.88	J/mol×K	635.42	Joback Method
cpg	314.37	J/mol×K	671.23	Joback Method

## Sources

<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=C1124205&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1124205&amp;Units=SI</a>
<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>KDB:</b>	<a href="https://www.cheric.org/files/research/kdb/mol/mol738.mol">https://www.cheric.org/files/research/kdb/mol/mol738.mol</a>

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity

<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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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