

# Benzene, 1,3-bis(1-methylethenyl)-

<b>Other names:</b>	Benzene, m-diisopropenyl- m-Bis(1-methylvinyl)benzene m-Diisopropenylbenzene 1,3-Diisopropenylbenzene
<b>Inchi:</b>	InChI=1S/C12H14/c1-9(2)11-6-5-7-12(8-11)10(3)4/h5-8H,1,3H2,2,4H3
<b>InchiKey:</b>	IBVPVTPPYGGAEL-UHFFFAOYSA-N
<b>Formula:</b>	C12H14
<b>SMILES:</b>	<chem>C=C(C)c1cccc(C(=C)C)c1</chem>
<b>Mol. weight [g/mol]:</b>	158.24
<b>CAS:</b>	3748-13-8

## Physical Properties

Property code	Value	Unit	Source
gf	311.52	kJ/mol	Joback Method
hf	165.33	kJ/mol	Joback Method
hfus	15.31	kJ/mol	Joback Method
hvap	44.06	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	3.753		Crippen Method
mcvol	147.580	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
tb	504.00	K	NIST Webbook
tb	504.20	K	NIST Webbook
tc	716.10	K	Joback Method
tf	232.50	K	Joback Method
vc	0.564	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.50	J/molxK	498.74	Joback Method
cpg	325.32	J/molxK	534.97	Joback Method
cpg	340.17	J/molxK	571.19	Joback Method
cpg	354.10	J/molxK	607.42	Joback Method

cpg	367.16	J/mol×K	643.65	Joback Method
cpg	379.39	J/mol×K	679.87	Joback Method
cpg	390.85	J/mol×K	716.10	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=C3748138&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3748138&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>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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