

# Benzene, 1,3-dimethyl-2,6-bis-(1-methylethyl)

Inchi:	InChI=1S/C14H22/c1-9(2)13-8-7-11(5)14(10(3)4)12(13)6/h7-10H,1-6H3
InchiKey:	GNULCJCEZILXHD-UHFFFAOYSA-N
Formula:	C14H22
SMILES:	<chem>Cc1ccc(C(C)C)c(C)c1C(C)C</chem>
Mol. weight [g/mol]:	190.32

## Physical Properties

Property code	Value	Unit	Source
gf	145.64	kJ/mol	Joback Method
hf	-140.73	kJ/mol	Joback Method
hfus	17.84	kJ/mol	Joback Method
hvap	50.24	kJ/mol	Joback Method
log10ws	-4.79		Crippen Method
logp	4.550		Crippen Method
mcvol	184.360	ml/mol	McGowan Method
pc	1957.87	kPa	Joback Method
ripol	1655.00		NIST Webbook
ripol	1655.00		NIST Webbook
ripol	1655.00		NIST Webbook
ripol	1668.00		NIST Webbook
ripol	1681.00		NIST Webbook
ripol	1695.00		NIST Webbook
tb	560.46	K	Joback Method
tc	765.83	K	Joback Method
tf	281.52	K	Joback Method
vc	0.700	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.88	J/molxK	560.46	Joback Method
cpg	525.82	J/molxK	731.60	Joback Method
cpg	511.14	J/molxK	697.37	Joback Method
cpg	495.64	J/molxK	663.14	Joback Method

cpg	479.27	J/mol×K	628.92	Joback Method
cpg	462.03	J/mol×K	594.69	Joback Method
cpg	539.70	J/mol×K	765.83	Joback Method
dvisc	0.0001473	Paxs	560.46	Joback Method
dvisc	0.0001902	Paxs	513.97	Joback Method
dvisc	0.0002584	Paxs	467.48	Joback Method
dvisc	0.0003757	Paxs	420.99	Joback Method
dvisc	0.0005993	Paxs	374.50	Joback Method
dvisc	0.0010915	Paxs	328.01	Joback Method
dvisc	0.0024229	Paxs	281.52	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=R555992&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R555992&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>	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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