

# Benzene, 1,1'-(diazomethylene)bis-

<b>Other names:</b>	Methane, diazodiphenyl- Diazodiphenylmethane Diphenyldiazomethane 1,1-Diphenyldiazomethane
<b>Inchi:</b>	InChI=1S/C13H10N2/c14-15-13(11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10H
<b>InchiKey:</b>	ITLHXEGAYQFOHJ-UHFFFAOYSA-N
<b>Formula:</b>	C13H10N2
<b>SMILES:</b>	[N-]=[N+]=C(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	194.23
<b>CAS:</b>	883-40-9

## Physical Properties

Property code	Value	Unit	Source
ie	7.90	eV	NIST Webbook
ie	8.31	eV	NIST Webbook
log10ws	-5.31		Crippen Method
logp	2.754		Crippen Method
mvol	157.870	ml/mol	McGowan 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>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=C883409&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C883409&amp;Units=SI</a>

## Legend

<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

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