

# Dibenzoequinene

<b>Inchi:</b>	InChI=1S/C24H20/c1-2-6-14-13(5-1)21-9-10-23-15-7-3-4-8-16(15)24-12-11-22(14,19(24)
<b>InchiKey:</b>	NMSVQNCOTZCAP-UHFFFAOYSA-N
<b>Formula:</b>	C24H20
<b>SMILES:</b>	c1ccc2c(c1)C13CCC45c6ccccc6C67CCC2(C6C14)C7C35
<b>Mol. weight [g/mol]:</b>	308.42
<b>CAS:</b>	15129-78-9

## Physical Properties

Property code	Value	Unit	Source
gf	861.24	kJ/mol	Joback Method
hf	517.09	kJ/mol	Joback Method
hfus	26.94	kJ/mol	Joback Method
hvap	67.82	kJ/mol	Joback Method
log10ws	-5.00		Crippen Method
logp	4.458		Crippen Method
mvol	225.480	ml/mol	McGowan Method
pc	2361.07	kPa	Joback Method
tb	816.88	K	Joback Method
tc	1085.93	K	Joback Method
tf	686.74	K	Joback Method
vc	0.925	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	758.13	J/molxK	816.88	Joback Method
cpg	783.63	J/molxK	861.72	Joback Method
cpg	813.03	J/molxK	906.56	Joback Method
cpg	847.63	J/molxK	951.41	Joback Method
cpg	888.73	J/molxK	996.25	Joback Method
cpg	937.64	J/molxK	1041.09	Joback Method
cpg	995.64	J/molxK	1085.93	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=C15129789&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15129789&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>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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