

# C21H16

<b>Inchi:</b>	InChI=1S/C21H16/c1-4-10-16(11-5-1)19-20(17-12-6-2-7-13-17)21(19)18-14-8-3-9-15-18
<b>InchiKey:</b>	UFTDGVXRVMJEDI-UHFFFAOYSA-N
<b>Formula:</b>	C21H16
<b>SMILES:</b>	<chem>c1ccc(C2=C(c3ccccc3)C2c2ccccc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	268.35
<b>CAS:</b>	4467-88-3

## Physical Properties

Property code	Value	Unit	Source
gf	534.62	kJ/mol	Joback Method
hf	340.46	kJ/mol	Joback Method
hfus	30.85	kJ/mol	Joback Method
hvap	70.70	kJ/mol	Joback Method
log10ws	-5.97		Crippen Method
logp	5.395		Crippen Method
mcvol	220.310	ml/mol	McGowan Method
pc	2256.81	kPa	Joback Method
tb	775.78	K	Joback Method
tc	1047.30	K	Joback Method
tf	449.43	K	Joback Method
vc	0.831	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	615.04	J/molxK	775.78	Joback Method
cpg	632.73	J/molxK	821.03	Joback Method
cpg	648.87	J/molxK	866.29	Joback Method
cpg	663.67	J/molxK	911.54	Joback Method
cpg	677.34	J/molxK	956.80	Joback Method
cpg	690.08	J/molxK	1002.05	Joback Method
cpg	702.10	J/molxK	1047.30	Joback Method
dvisc	0.0013548	Paxs	449.43	Joback Method
dvisc	0.0009063	Paxs	503.82	Joback Method

dvisc	0.0006556	Paxs	558.21	Joback Method
dvisc	0.0005024	Paxs	612.61	Joback Method
dvisc	0.0004020	Paxs	667.00	Joback Method
dvisc	0.0003327	Paxs	721.39	Joback Method
dvisc	0.0002828	Paxs	775.78	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=C4467883&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4467883&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>
<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>mccvol:</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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