

# Dibenzo[c,kl]xanthene

<b>Inchi:</b>	InChI=1S/C20H12O/c1-2-8-15-13(5-1)11-12-17-16-9-3-6-14-7-4-10-18(19(14)16)21-20(1
<b>InchiKey:</b>	DRYQYXMAHDNFSU-UHFFFAOYSA-N
<b>Formula:</b>	C20H12O
<b>SMILES:</b>	c1ccc2c3c(ccc2c1)-c1cccc2cccc(c12)O3
<b>Mol. weight [g/mol]:</b>	268.31
<b>CAS:</b>	216-58-0

## Physical Properties

Property code	Value	Unit	Source
gf	523.66	kJ/mol	Joback Method
hf	326.65	kJ/mol	Joback Method
hfus	37.36	kJ/mol	Joback Method
hvap	74.98	kJ/mol	Joback Method
log10ws	-7.56		Crippen Method
logp	5.766		Crippen Method
mcvol	201.230	ml/mol	McGowan Method
pc	2651.56	kPa	Joback Method
rinpol	451.57		NIST Webbook
tb	798.06	K	Joback Method
tc	1065.13	K	Joback Method
tf	539.27	K	Joback Method
vc	0.778	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	551.79	J/molxK	798.06	Joback Method
cpg	615.19	J/molxK	1020.62	Joback Method
cpg	602.79	J/molxK	976.11	Joback Method
cpg	590.53	J/molxK	931.60	Joback Method
cpg	578.12	J/molxK	887.08	Joback Method
cpg	565.30	J/molxK	842.57	Joback Method
cpg	627.99	J/molxK	1065.13	Joback Method
dvisc	0.0015846	Paxs	798.06	Joback Method

dvisc	0.0017012	Paxs	754.93	Joback Method
dvisc	0.0018423	Paxs	711.80	Joback Method
dvisc	0.0020156	Paxs	668.66	Joback Method
dvisc	0.0022328	Paxs	625.53	Joback Method
dvisc	0.0025111	Paxs	582.40	Joback Method
dvisc	0.0028777	Paxs	539.27	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=C216580&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C216580&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>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>rinpol:</b>	Non-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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