

# Dibenzo[def,mno]chrysene

<b>Other names:</b>	Anthanthrene Anthanthren Dibenzo[cd,jk]pyrene Anthranthrene Dibenz[def,mno]chrysene Dibenzo[def,mno]chrysene
<b>Inchi:</b>	InChI=1S/C22H12/c1-3-13-7-9-18-12-16-6-2-4-14-8-10-17-11-15(5-1)19(13)21(18)22(17)
<b>InchiKey:</b>	YFIJJNAKSZUOLT-UHFFFAOYSA-N
<b>Formula:</b>	C22H12
<b>SMILES:</b>	<chem>c1cc2ccc3cc4cccc5ccc6cc(c1)c2c3c6c54</chem>
<b>Mol. weight [g/mol]:</b>	276.33
<b>CAS:</b>	191-26-4

## Physical Properties

Property code	Value	Unit	Source
gf	729.98	kJ/mol	Joback Method
hf	557.67	kJ/mol	Joback Method
hfus	36.27	kJ/mol	Joback Method
hvap	76.42	kJ/mol	Joback Method
ie	7.01	eV	NIST Webbook
ie	6.84	eV	NIST Webbook
ie	6.92 ± 0.04	eV	NIST Webbook
ie	7.10	eV	NIST Webbook
ie	7.11	eV	NIST Webbook
log10ws	-9.32		Crippen Method
logp	6.328		Crippen Method
mccvol	208.380	ml/mol	McGowan Method
pc	2485.07	kPa	Joback Method
rinpol	504.85		NIST Webbook
rinpol	503.90		NIST Webbook
rinpol	509.50		NIST Webbook
rinpol	3215.00		NIST Webbook
rinpol	3215.00		NIST Webbook
rinpol	3183.00		NIST Webbook
rinpol	3186.00		NIST Webbook
rinpol	3215.00		NIST Webbook
rinpol	503.89		NIST Webbook

rinpol	508.40		NIST Webbook
rinpol	505.29		NIST Webbook
rinpol	3215.00		NIST Webbook
rinpol	504.26		NIST Webbook
rinpol	505.29		NIST Webbook
rinpol	504.10		NIST Webbook
rinpol	503.89		NIST Webbook
rinpol	505.97		NIST Webbook
rinpol	505.29		NIST Webbook
rinpol	505.97		NIST Webbook
rinpol	506.40		NIST Webbook
rinpol	505.61		NIST Webbook
rinpol	503.90		NIST Webbook
rinpol	505.97		NIST Webbook
rinpol	508.40		NIST Webbook
rinpol	505.49		NIST Webbook
rinpol	506.49		NIST Webbook
rinpol	509.50		NIST Webbook
rinpol	510.00		NIST Webbook
rinpol	510.58		NIST Webbook
rinpol	503.89		NIST Webbook
rinpol	508.40		NIST Webbook
tb	828.86	K	Joback Method
tc	1092.51	K	Joback Method
tf	530.90 ± 1.50	K	NIST Webbook
vc	0.830	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	658.14	J/mol×K	1092.51	Joback Method
cpg	573.06	J/mol×K	828.86	Joback Method
cpg	586.21	J/mol×K	872.80	Joback Method
cpg	599.31	J/mol×K	916.74	Joback Method
cpg	612.69	J/mol×K	960.68	Joback Method
cpg	626.73	J/mol×K	1004.62	Joback Method
cpg	641.76	J/mol×K	1048.57	Joback Method
dvisc	0.0081374	Paxs	828.86	Joback Method
dvisc	0.0083814	Paxs	590.26	Joback Method
dvisc	0.0083273	Paxs	630.03	Joback Method
dvisc	0.0082799	Paxs	669.79	Joback Method

dvisc	0.0082380	Paxs	709.56	Joback Method
dvisc	0.0082008	Paxs	749.33	Joback Method
dvisc	0.0081674	Paxs	789.09	Joback Method
hsubt	135.00 ± 5.00	kJ/mol	479.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C191264&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C191264&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<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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