

# Benz[def]indeno[1,2,3-hi]chrysene

<b>Inchi:</b>	InChI=1S/C26H14/c1-2-8-18-17(7-1)19-9-4-10-20-21-13-11-15-5-3-6-16-12-14-22(25(21)
<b>InchiKey:</b>	UEKNZIHUVKZBV-UHFFFAOYSA-N
<b>Formula:</b>	C26H14
<b>SMILES:</b>	c1ccc2c(c1)-c1cccc3c1c-2c1ccc2cccc4ccc3c1c24
<b>Mol. weight [g/mol]:</b>	326.39
<b>CAS:</b>	111189-33-4

## Physical Properties

Property code	Value	Unit	Source
gf	860.68	kJ/mol	Joback Method
hf	654.71	kJ/mol	Joback Method
hfus	43.26	kJ/mol	Joback Method
hvap	87.62	kJ/mol	Joback Method
log10ws	-11.56		Crippen Method
logp	7.385		Crippen Method
mcvol	245.280	ml/mol	McGowan Method
pc	2143.35	kPa	Joback Method
tb	944.34	K	Joback Method
tc	1213.26	K	Joback Method
tf	680.56	K	Joback Method
vc	0.976	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	717.27	J/molxK	944.34	Joback Method
cpg	813.43	J/molxK	1168.44	Joback Method
cpg	790.49	J/molxK	1123.62	Joback Method
cpg	769.83	J/molxK	1078.80	Joback Method
cpg	751.03	J/molxK	1033.98	Joback Method
cpg	733.65	J/molxK	989.16	Joback Method
cpg	839.08	J/molxK	1213.26	Joback Method
dvisc	0.0149317	Paxs	944.34	Joback Method
dvisc	0.0150001	Paxs	900.38	Joback Method

dvisc	0.0150758	Paxs	856.41	Joback Method
dvisc	0.0151603	Paxs	812.45	Joback Method
dvisc	0.0152550	Paxs	768.49	Joback Method
dvisc	0.0153618	Paxs	724.52	Joback Method
dvisc	0.0154834	Paxs	680.56	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C111189334&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C111189334&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>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

Latest version available from:

<https://www.chemeo.com/cid/72-222-5/Benz-def-indeno-1-2-3-hi-chrysene.pdf>

Generated by Cheméo on 2024-04-28 17:59:35.416726264 +0000 UTC m=+16616424.337303576.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.