

# Dibenzo[m,pqr]naphtho[1,2,3,4-tuv]picene

<b>Inchi:</b>	InChI=1S/C34H18/c1-2-8-22-20(6-1)18-21-13-15-29-32-27(17-16-26(22)31(21)32)28-14-
<b>InchiKey:</b>	AYMPPZHDKKQMLT-UHFFFAOYSA-N
<b>Formula:</b>	C34H18
<b>SMILES:</b>	c1ccc2c(c1)cc1ccc3c4c(ccc2c14)c1ccc2cccc4c5ccccc5c3c1c24
<b>Mol. weight [g/mol]:</b>	426.51
<b>CAS:</b>	190-93-2

## Physical Properties

Property code	Value	Unit	Source
gf	1122.08	kJ/mol	Joback Method
hf	848.79	kJ/mol	Joback Method
hfus	57.24	kJ/mol	Joback Method
hvap	110.04	kJ/mol	Joback Method
ie	6.59 ± 0.02	eV	NIST Webbook
log10ws	-14.74		Crippen Method
logp	9.788		Crippen Method
mcvol	319.080	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
tb	1175.30	K	Joback Method
tc	1459.00	K	Joback Method
tf	861.16	K	Joback Method
vc	1.268	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1063.65	J/mol×K	1175.30	Joback Method
cpg	1098.44	J/mol×K	1222.58	Joback Method
cpg	1137.66	J/mol×K	1269.87	Joback Method
cpg	1181.95	J/mol×K	1317.15	Joback Method
cpg	1231.96	J/mol×K	1364.44	Joback Method
cpg	1288.31	J/mol×K	1411.72	Joback Method
cpg	1351.65	J/mol×K	1459.00	Joback Method
dvisc	0.0486510	Paxs	861.16	Joback Method

dvisc	0.0481869	Paxs	913.52	Joback Method
dvisc	0.0477768	Paxs	965.87	Joback Method
dvisc	0.0474118	Paxs	1018.23	Joback Method
dvisc	0.0470849	Paxs	1070.59	Joback Method
dvisc	0.0467905	Paxs	1122.94	Joback Method
dvisc	0.0465239	Paxs	1175.30	Joback Method
hsubt	154.10	kJ/mol	540.50	NIST Webbook

## 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=C190932&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C190932&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>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>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/15-745-8/Dibenzo-m-pqr-naptho-1-2-3-4-tuv-picene.pdf>

Generated by Cheméo on 2024-04-26 08:33:15.045912551 +0000 UTC m=+16409643.966489862.

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