

## [4.2.2]Propella-2,4,7,9-tetraene

<b>Inchi:</b>	InChI=1S/C10H8/c1-2-4-10-7-5-9(10,3-1)6-8-10/h1-8H
<b>InchiKey:</b>	HLHKYPRYFGATQL-UHFFFAOYSA-N
<b>Formula:</b>	C10H8
<b>SMILES:</b>	C1=CC23C=CC2(C=C1)C=C3
<b>Mol. weight [g/mol]:</b>	128.17
<b>CAS:</b>	88090-34-0

### Physical Properties

Property code	Value	Unit	Source
gf	320.04	kJ/mol	Joback Method
hf	244.45	kJ/mol	Joback Method
hfus	5.18	kJ/mol	Joback Method
hvap	36.94	kJ/mol	Joback Method
ie	8.06	eV	NIST Webbook
log10ws	-2.62		Crippen Method
logp	2.225		Crippen Method
mcvol	101.980	ml/mol	McGowan Method
pc	4468.24	kPa	Joback Method
tb	454.48	K	Joback Method
tc	699.27	K	Joback Method
tf	307.84	K	Joback Method
vc	0.400	m <sup>3</sup> /kmol	Joback Method

### Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.76	J/molxK	454.48	Joback Method
cpg	229.19	J/molxK	495.28	Joback Method
cpg	242.31	J/molxK	536.08	Joback Method
cpg	253.54	J/molxK	576.88	Joback Method
cpg	263.28	J/molxK	617.67	Joback Method
cpg	271.96	J/molxK	658.47	Joback Method
cpg	279.99	J/molxK	699.27	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C88090340&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C88090340&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>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/77-056-5/4-2-2-Propella-2-4-7-9-tetraene.pdf>

Generated by Cheméo on 2024-04-19 22:07:18.401913397 +0000 UTC m=+15853687.322490712.

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