

3-Hexyne-2,5-diol

Other names:	Hexyne-3-diol-2,5 3-Hexyn-2,5-diol hex-3-yne-2,5-diol
Inchi:	InChI=1S/C6H10O2/c1-5(7)3-4-6(2)8/h5-8H,1-2H3
InchiKey:	KDOWHHULNXTNS-UHFFFAOYSA-N
Formula:	C6H10O2
SMILES:	CC(O)C#CC(C)O
Mol. weight [g/mol]:	114.14
CAS:	3031-66-1

Physical Properties

Property code	Value	Unit	Source
gf	-76.08	kJ/mol	Joback Method
hf	-209.89	kJ/mol	Joback Method
hfus	15.55	kJ/mol	Joback Method
hvap	63.68	kJ/mol	Joback Method
log10ws	-0.88		Crippen Method
logp	-0.249		Crippen Method
mcvol	98.540	ml/mol	McGowan Method
pc	4862.97	kPa	Joback Method
rinpol	161.40		NIST Webbook
rinpol	161.40		NIST Webbook
tb	529.16	K	Joback Method
tc	710.97	K	Joback Method
tf	355.12	K	Joback Method
vc	0.359	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	219.64	J/mol×K	529.16	Joback Method
cpg	227.30	J/mol×K	559.46	Joback Method
cpg	234.63	J/mol×K	589.76	Joback Method
cpg	241.64	J/mol×K	620.06	Joback Method

cpg	248.34	J/mol×K	650.36	Joback Method
cpg	254.74	J/mol×K	680.66	Joback Method
cpg	260.84	J/mol×K	710.97	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	394.20	K	2.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3031661&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/80-978-8/3-Hexyne-2-5-diol.pdf>

Generated by Cheméo on 2025-12-19 23:40:49.951433885 +0000 UTC m=+5935847.481474554.

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