

Hex-3-en-1,5-diyne

Inchi:	InChI=1S/C6H4/c1-3-5-6-4-2/h1-2,5-6H
InchiKey:	KIWAUQFHKHLABA-UHFFFAOYSA-N
Formula:	C6H4
SMILES:	C#CC=CC#C
Mol. weight [g/mol]:	76.10
CAS:	6929-94-8

Physical Properties

Property code	Value	Unit	Source
gf	526.00	kJ/mol	Joback Method
hf	533.85	kJ/mol	Joback Method
hfus	17.45	kJ/mol	Joback Method
hvap	28.62	kJ/mol	Joback Method
ie	9.60 ± 0.20	eV	NIST Webbook
log10ws	-1.78		Crippen Method
logp	0.809		Crippen Method
mcvol	73.900	ml/mol	McGowan Method
pc	4782.59	kPa	Joback Method
tb	321.08	K	Joback Method
tc	520.62	K	Joback Method
tf	246.24	K	Joback Method
vc	0.276	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	106.95	J/mol×K	321.08	Joback Method
cpg	113.60	J/mol×K	354.34	Joback Method
cpg	119.75	J/mol×K	387.59	Joback Method
cpg	125.44	J/mol×K	420.85	Joback Method
cpg	130.70	J/mol×K	454.11	Joback Method
cpg	135.55	J/mol×K	487.36	Joback Method
cpg	140.03	J/mol×K	520.62	Joback Method

Sources

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=C6929948&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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