3-Ethylidene-1,4-pentadiene

Inchi: InChI=1S/C7H10/c1-4-7(5-2)6-3/h4-6H,1-2H2,3H3
InchiKey: RUKCSZJSODAPHD-UHFFFAOYSA-N
Formula: C7H10
SMILES: C=CC(C=C)=CC
Mol. weight [g/mol]: 94.15
CAS: 95540-87-7

Physical Properties

Property code	Value	Unit	Source
gf	255.41	kJ/mol	Joback Method
hf	159.00	kJ/mol	NIST Webbook
hfus	10.22	kJ/mol	Joback Method
hvap	29.87	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	2.305		Crippen Method
mcvol	96.590	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
tb	356.96	K	Joback Method
tc	540.47	K	Joback Method
tf	146.09	K	Joback Method
vc	0.370	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	153.04	J/mol×K	356.96	Joback Method
cpg	163.74	J/mol×K	387.54	Joback Method
cpg	173.85	J/mol×K	418.13	Joback Method
cpg	183.43	J/mol×K	448.71	Joback Method
cpg	192.47	J/mol×K	479.30	Joback Method
cpg	201.03	J/mol×K	509.88	Joback Method
cpg	209.12	J/mol×K	540.47	Joback Method

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=C95540877&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume