Benzene, (1-ethyl-2-propenyl)-

Other names:	1-Pentene, 3-phenyl- Benzene, (1-ethylallyl)- 3-Phenyl-1-pentene
Inchi:	InChI=1S/C11H14/c1-3-10(4-2)11-8-6-5-7-9-11/h3,5-10H,1,4H2,2H3
InchiKey:	HAGOWDKLLDRZAS-UHFFFAOYSA-N
Formula:	C11H14
SMILES:	C=CC(CC)c1ccccc1
Mol. weight [g/mol]:	146.23
CAS:	19947-22-9

Physical Properties

Property code	Value	Unit	Source
gf	239.55	kJ/mol	Joback Method
hf	86.31	kJ/mol	Joback Method
hfus	13.48	kJ/mol	Joback Method
hvap	41.30	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	3.366		Crippen Method
mcvol	137.790	ml/mol	McGowan Method
pc	2790.61	kPa	Joback Method
tb	474.00	K	Joback Method
tc	685.20	K	Joback Method
tf	223.39	K	Joback Method
vc	0.518	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.66	J/mol×K	474.00	Joback Method
cpg	298.57	J/mol×K	509.20	Joback Method
cpg	313.54	J/mol×K	544.40	Joback Method
cpg	327.59	J/mol×K	579.60	Joback Method
cpg	340.77	J/mol×K	614.80	Joback Method
cpg	353.13	J/mol×K	650.00	Joback Method

cpg	364.71	J/mol×K	685.20	Joback Method
dvisc	0.0051264	Pa×s	223.39	Joback Method
dvisc	0.0019756	Pa×s	265.16	Joback Method
dvisc	0.0009869	Pa×s	306.93	Joback Method
dvisc	0.0005822	Pa×s	348.69	Joback Method
dvisc	0.0003845	Pa×s	390.46	Joback Method
dvisc	0.0002751	Pa×s	432.23	Joback Method
dvisc	0.0002089	Pa×s	474.00	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C19947229&Units=SI
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

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
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