

Benzene, 2-butenyl-, cis

Inchi:	InChI=1S/C10H12/c1-2-3-7-10-8-5-4-6-9-10/h2-6,8-9H,7H2,1H3/b3-2-
InchiKey:	VUKHQPGJNTXTPY-IHWYPQMZSA-N
Formula:	C10H12
SMILES:	CC=CCc1ccccc1
Mol. weight [g/mol]:	132.20

Physical Properties

Property code	Value	Unit	Source
gf	225.95	kJ/mol	Joback Method
hf	104.02	kJ/mol	Joback Method
hfus	15.90	kJ/mol	Joback Method
hvap	40.09	kJ/mol	Joback Method
log10ws	-2.97		Crippen Method
logp	2.805		Crippen Method
mcvol	123.700	ml/mol	McGowan Method
pc	3103.64	kPa	Joback Method
rinqol	1071.00		NIST Webbook
tb	459.04	K	Joback Method
tc	673.98	K	Joback Method
tf	223.80	K	Joback Method
vc	0.468	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.15	J/molxK	459.04	Joback Method
cpg	305.09	J/molxK	638.16	Joback Method
cpg	293.79	J/molxK	602.33	Joback Method
cpg	281.69	J/molxK	566.51	Joback Method
cpg	268.75	J/molxK	530.69	Joback Method
cpg	254.92	J/molxK	494.86	Joback Method
cpg	315.65	J/molxK	673.98	Joback Method
dvisc	0.0001899	Paxs	459.04	Joback Method
dvisc	0.0002455	Paxs	419.83	Joback Method

dvisc	0.0003345	Paxs	380.63	Joback Method
dvisc	0.0004895	Paxs	341.42	Joback Method
dvisc	0.0007906	Paxs	302.21	Joback Method
dvisc	0.0014730	Paxs	263.01	Joback Method
dvisc	0.0034135	Paxs	223.80	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R297097&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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