Butyl, 2-methylene-

Inchi: InChI=1S/C5H9/c1-4-5(2)3/h2-4H2,1H3
InchiKey: NIAKVGJCTZXVNA-UHFFFAOYSA-N
Formula: C5H9
SMILES: [CH2]C(=C)CC
Mol. weight [g/mol]: 69.12
CAS: 60288-48-4

Physical Properties

Property code	Value	Unit	Source
gf	122.89	kJ/mol	Joback Method
hf	24.92	kJ/mol	Joback Method
hfus	7.80	kJ/mol	Joback Method
hvap	25.99	kJ/mol	Joback Method
ie	7.90	eV	NIST Webbook
log10ws	-1.38		Crippen Method
logp	1.787		Crippen Method
mcvol	74.860	ml/mol	McGowan Method
pc	3872.29	kPa	Joback Method
tb	309.66	K	Joback Method
tc	475.91	K	Joback Method
tf	146.76	K	Joback Method
vc	0.288	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	108.35	J/mol×K	309.66	Joback Method
cpg	116.83	J/mol×K	337.37	Joback Method
cpg	124.85	J/mol×K	365.08	Joback Method
cpg	132.42	J/mol×K	392.79	Joback Method
cpg	139.57	J/mol×K	420.49	Joback Method
cpg	146.33	J/mol×K	448.20	Joback Method
cpg	152.71	J/mol×K	475.91	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C60288484&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
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