Benzene, sec-pentyl-

Other names:	sec-pentylbenzene
	Sec-amylbenzene
Inchi:	InChI=1S/C11H16/c1-3-7-10(2)11-8-5-4-6-9-11/h4-6,8-10H,3,7H2,1-2H3
InchiKey:	LTHAIAJHDPJXLG-UHFFFAOYSA-N
Formula:	C11H16
SMILES:	CCCC(C)c1ccccc1
Mol. weight [g/mol]:	148.24
CAS:	29316-05-0

Physical Properties

Property code	Value	Unit	Source
gf	151.71	kJ/mol	Joback Method
hf	-39.12	kJ/mol	Joback Method
hfus	14.76	kJ/mol	Joback Method
hvap	41.97	kJ/mol	Joback Method
log10ws	-3.49		Crippen Method
logp	3.590		Crippen Method
mcvol	142.090	ml/mol	McGowan Method
pc	2670.78	kPa	Joback Method
tb	477.32	K	Joback Method
tc	683.92	K	Joback Method
tf	225.15	K	Joback Method
vc	0.537	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.07	J/mol×K	477.32	Joback Method
cpg	316.59	J/mol×K	511.75	Joback Method
cpg	332.19	J/mol×K	546.19	Joback Method
cpg	346.91	J/mol×K	580.62	Joback Method
cpg	360.78	J/mol×K	615.05	Joback Method
cpg	373.84	J/mol×K	649.49	Joback Method
cpg	386.13	J/mol×K	683.92	Joback Method

dvisc	0.0057730	Pa×s	225.15	Joback Method
dvisc	0.0021444	Pa×s	267.18	Joback Method
dvisc	0.0010427	Pa×s	309.21	Joback Method
dvisc	0.0006024	Pa×s	351.24	Joback Method
dvisc	0.0003914	Pa×s	393.26	Joback Method
dvisc	0.0002764	Pa×s	435.29	Joback Method
dvisc	0.0002075	Pa×s	477.32	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=C29316050&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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