Benzene, (4-chlorobutoxy)-

Other names:	1-Chloro-4-phenoxybutane
	Ether, 4-chlorobutyl phenyl
	4-Phenoxybutyl chloride
	4-chlorobutyl phenyl ether
Inchi:	InChI=1S/C10H13ClO/c11-8-4-5-9-12-10-6-2-1-3-7-10/h1-3,6-7H,4-5,8-9H2
InchiKey:	JKXCPAVECBFBOC-UHFFFAOYSA-N
Formula:	C10H13ClO
SMILES:	ClCCCCOc1ccccc1
Mol. weight [g/mol]:	184.66
CAS:	2651-46-9

Physical Properties

Property code	Value	Unit	Source
gf	28.80	kJ/mol	Joback Method
hf	-161.16	kJ/mol	Joback Method
hfus	21.08	kJ/mol	Joback Method
hvap	46.93	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	3.084		Crippen Method
mcvol	146.110	ml/mol	McGowan Method
pc	2767.17	kPa	Joback Method
tb	514.73	K	Joback Method
tc	723.31	K	Joback Method
tf	281.03	K	Joback Method
vc	0.554	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.44	J/mol×K	514.73	Joback Method
cpg	371.96	J/mol×K	688.54	Joback Method
cpg	360.90	J/mol×K	653.78	Joback Method
cpg	349.13	J/mol×K	619.02	Joback Method
cpg	336.65	J/mol×K	584.26	Joback Method

cpg	323.43	J/mol×K	549.49	Joback Method
cpg	382.34	J/mol×K	723.31	Joback Method
dvisc	0.0002014	Pa×s	514.73	Joback Method
dvisc	0.0002589	Pa×s	475.78	Joback Method
dvisc	0.0003481	Pa×s	436.83	Joback Method
dvisc	0.0004958	Pa×s	397.88	Joback Method
dvisc	0.0007627	Pa×s	358.93	Joback Method
dvisc	0.0013029	Pa×s	319.98	Joback Method
dvisc	0.0025817	Pa×s	281.03	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	420.20	K	1.60	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2651469&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume