Carbonic acid, butyl 4-benzyloxyphenyl ester

Inchi: InChI=1S/C18H20O4/c1-2-3-13-20-18(19)22-17-11-9-16(10-12-17)21-14-15-7-5-4-6-8-15
InchiKey: DHCGHGSLRADEDL-UHFFFAOYSA-N
Formula: C18H20O4
SMILES: CCCCOC(=O)Oc1ccc(OCc2ccccc2)cc1
Mol. weight [g/mol]: 300.35

Physical Properties

Property code	Value	Unit	Source
gf	-128.05	kJ/mol	Joback Method
hf	-462.50	kJ/mol	Joback Method
hfus	35.23	kJ/mol	Joback Method
hvap	74.85	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.581		Crippen Method
mcvol	236.140	ml/mol	McGowan Method
pc	1911.91	kPa	Joback Method
rinpol	2421.00		NIST Webbook
rinpol	2421.00		NIST Webbook
tb	790.71	K	Joback Method
tc	1011.69	K	Joback Method
tf	474.60	K	Joback Method
vc	0.887	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.10	J/mol×K	790.71	Joback Method
cpg	696.53	J/mol×K	827.54	Joback Method
cpg	710.70	J/mol×K	864.37	Joback Method
cpg	723.64	J/mol×K	901.20	Joback Method
cpg	735.37	J/mol×K	938.03	Joback Method
cpg	745.89	J/mol×K	974.86	Joback Method
cpg	755.23	J/mol×K	1011.69	Joback Method
dvisc	0.0005243	Pa×s	474.60	Joback Method

dvisc	0.0003012	Pa×s	527.29	Joback Method
dvisc	0.0001913	Pa×s	579.97	Joback Method
dvisc	0.0001311	Pa×s	632.65	Joback Method
dvisc	0.0000952	Pa×s	685.34	Joback Method
dvisc	0.0000724	Pa×s	738.03	Joback Method
dvisc	0.0000570	Pa×s	790.71	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357853&Units=SI

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