Carbonic acid, propyl 4-benzyloxyphenyl ester

Inchi: InChI=1S/C17H18O4/c1-2-12-19-17(18)21-16-10-8-15(9-11-16)20-13-14-6-4-3-5-7-14/h3
InchiKey: UZEZQAFDXMYNHE-UHFFFAOYSA-N
Formula: C17H18O4
SMILES: CCCOC(=O)Oc1ccc(OCc2ccccc2)cc1
Mol. weight [g/mol]: 286.32

Physical Properties

Property code	Value	Unit	Source
gf	-136.47	kJ/mol	Joback Method
hf	-441.86	kJ/mol	Joback Method
hfus	32.64	kJ/mol	Joback Method
hvap	72.63	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	4.191		Crippen Method
mcvol	222.050	ml/mol	McGowan Method
pc	2083.12	kPa	Joback Method
rinpol	2312.00		NIST Webbook
rinpol	2312.00		NIST Webbook
tb	767.83	K	Joback Method
tc	991.87	K	Joback Method
tf	463.33	K	Joback Method
vc	0.832	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	625.53	J/mol×K	767.83	Joback Method
cpg	640.78	J/mol×K	805.17	Joback Method
cpg	654.81	J/mol×K	842.51	Joback Method
cpg	667.62	J/mol×K	879.85	Joback Method
cpg	679.24	J/mol×K	917.19	Joback Method
cpg	689.67	J/mol×K	954.53	Joback Method
cpg	698.94	J/mol×K	991.87	Joback Method
dvisc	0.0005696	Pa×s	463.33	Joback Method

dvisc	0.0003316	Pa×s	514.08	Joback Method
dvisc	0.0002128	Pa×s	564.83	Joback Method
dvisc	0.0001469	Pa×s	615.58	Joback Method
dvisc	0.0001073	Pa×s	666.33	Joback Method
dvisc	0.0000819	Pa×s	717.08	Joback Method
dvisc	0.0000648	Pa×s	767.83	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357824&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume