

Carbonic acid, ethyl 4-benzyloxyphenyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C16H16O4/c1-2-18-16(17)20-15-10-8-14(9-11-15)19-12-13-6-4-3-5-7-13/h3-11

RZWVJFZOXDIFMQ-UHFFFAOYSA-N

C16H16O4

CCOC(=O)Oc1ccc(OCc2ccccc2)cc1

272.30

Physical Properties

Property code	Value	Unit	Source
gf	-144.89	kJ/mol	Joback Method
hf	-421.22	kJ/mol	Joback Method
hfus	30.05	kJ/mol	Joback Method
hvap	70.40	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	3.801		Crippen Method
mcvol	207.960	ml/mol	McGowan Method
pc	2278.41	kPa	Joback Method
rinpol	2198.00		NIST Webbook
tb	744.95	K	Joback Method
tc	972.58	K	Joback Method
tf	452.06	K	Joback Method
vc	0.775	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	570.98	J/mol×K	744.95	Joback Method
cpg	585.99	J/mol×K	782.89	Joback Method
cpg	599.81	J/mol×K	820.83	Joback Method
cpg	612.44	J/mol×K	858.76	Joback Method
cpg	623.89	J/mol×K	896.70	Joback Method
cpg	634.18	J/mol×K	934.64	Joback Method
cpg	643.32	J/mol×K	972.58	Joback Method
dvisc	0.0006153	Pa×s	452.06	Joback Method
dvisc	0.0003632	Pa×s	500.88	Joback Method

dvisc	0.0002354	Pa×s	549.69	Joback Method
dvisc	0.0001638	Pa×s	598.50	Joback Method
dvisc	0.0001204	Pa×s	647.32	Joback Method
dvisc	0.0000924	Pa×s	696.13	Joback Method
dvisc	0.0000734	Pa×s	744.95	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357924&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

Latest version available from:

<https://www.chemeo.com/cid/21-722-6/Carbonic-acid-ethyl-4-benzyloxyphenyl-ester.pdf>

Generated by Cheméo on 2025-12-05 08:20:58.93307395 +0000 UTC m=+4671056.463114611.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.