

Diglycolic acid, butyl 2,6-dimethoxyphenyl ester

Inchi:	InChI=1S/C16H22O7/c1-4-5-9-22-14(17)10-21-11-15(18)23-16-12(19-2)7-6-8-13(16)20-3
InchiKey:	DLUQDQUHLWYTPN-UHFFFAOYSA-N
Formula:	C16H22O7
SMILES:	CCCCOC(=O)COCC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]:	326.34

Physical Properties

Property code	Value	Unit	Source
gf	-605.85	kJ/mol	Joback Method
hf	-1046.24	kJ/mol	Joback Method
hfus	39.60	kJ/mol	Joback Method
hvap	80.35	kJ/mol	Joback Method
log10ws	-2.49		Crippen Method
logp	1.969		Crippen Method
mcvol	245.030	ml/mol	McGowan Method
pc	1718.88	kPa	Joback Method
rinpola	2861.00		NIST Webbook
rinpola	2861.00		NIST Webbook
tb	821.96	K	Joback Method
tc	1023.82	K	Joback Method
tf	532.55	K	Joback Method
vc	0.925	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	730.96	J/molxK	821.96	Joback Method
cpg	744.77	J/molxK	855.60	Joback Method
cpg	757.44	J/molxK	889.25	Joback Method
cpg	768.94	J/molxK	922.89	Joback Method
cpg	779.24	J/molxK	956.53	Joback Method
cpg	788.31	J/molxK	990.18	Joback Method
cpg	796.11	J/molxK	1023.82	Joback Method
dvisc	0.0002711	Paxs	532.55	Joback Method

dvisc	0.0001738	Paxs	580.78	Joback Method
dvisc	0.0001193	Paxs	629.02	Joback Method
dvisc	0.0000864	Paxs	677.25	Joback Method
dvisc	0.0000653	Paxs	725.49	Joback Method
dvisc	0.0000511	Paxs	773.73	Joback Method
dvisc	0.0000412	Paxs	821.96	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=U381905&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
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/89-746-6/Diglycolic-acid-butyl-2-6-dimethoxyphenyl-ester.pdf>

Generated by Cheméo on 2024-05-03 19:15:31.143759688 +0000 UTC m=+17052980.064337004.

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