ETHANEDIONE, BIS(4-METHOXYPHENYL)-

Other names:	p,p'-Dimethoxybenzil
	Anisil
	p-Anisil
	Ethanedione, bis(4-methoxyphenyl)-
	Bis(4-methoxyphenyl)ethanedione
Inchi:	InChI=1S/C16H14O4/c1-19-13-7-3-11(4-8-13)15(17)16(18)12-5-9-14(20-2)10-6-12/h3-10
InchiKey:	YNANGXWUZWWFKX-UHFFFAOYSA-N
Formula:	C16H14O4
SMILES:	COc1ccc(C(=O)C(=O)c2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	270.28

Physical Properties

Property code	Value	Unit	Source
hf	-375.14	kJ/mol	Cheméo Relay (1.0)
hfus	30.07	kJ/mol	Joback Method
hvap	98.32	kJ/mol	Cheméo Relay (1.0)
ie	8.10	eV	Cheméo Relay (1.0)
log10ws	-4.15		Cheméo Relay (1.0)
logp	2.769		Crippen Method
mcvol	203.660	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
tb	651.15	K	Cheméo Relay (1.0)
tc	896.84	K	Cheméo Relay (1.0)
tf	424.35	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	557.14	J/mol×K	781.38	Joback Method
cpg	570.55	J/mol×K	820.82	Joback Method
cpg	582.77	J/mol×K	860.25	Joback Method
cpg	593.81	J/mol×K	899.69	Joback Method
cpg	603.68	J/mol×K	939.12	Joback Method
cpg	612.41	J/mol×K	978.56	Joback Method

cpg	620.03	J/mol×K	1018.00	Joback Method
dvisc	0.0006325	Pa×s	492.28	Joback Method
dvisc	0.0004009	Pa×s	540.46	Joback Method
dvisc	0.0002738	Pa×s	588.65	Joback Method
dvisc	0.0001981	Pa×s	636.83	Joback Method
dvisc	0.0001500	Pa×s	685.01	Joback Method
dvisc	0.0001178	Pa×s	733.20	Joback Method
dvisc	0.0000953	Pa×s	781.38	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1226422&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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