di-p-Anisylideneacetone

Other names:	Dianisylideneacetone
	di(4-Methoxybenzylidene)acetone
	1,4-Pentadien-3-one, 1,5-bis(p-methoxyphenyl)-
	1,4-Pentadien-3-one, 1,5-bis(4-methoxyphenyl)-
	1,5-Bis(p-methoxyphenyl)-3-pentadienone
	Bis(4-methoxybenzylidene)acetone
	Dianisalacetone
Inchi:	InChI=1S/C19H18O3/c1-21-18-11-5-15(6-12-18)3-9-17(20)10-4-16-7-13-19(22-2)14-8-16
InchiKey:	IOZVKDXPBWBUKY-LQIBPGRFSA-N
Formula:	C19H18O3
SMILES:	COc1ccc(C=CC(=O)C=Cc2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	294.34
CAS:	2051-07-2

Physical Properties

Property code	Value	Unit	Source
gf	136.18	kJ/mol	Joback Method
hf	-127.95	kJ/mol	Joback Method
hfus	36.65	kJ/mol	Joback Method
hvap	75.25	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	3.999		Crippen Method
mcvol	235.760	ml/mol	McGowan Method
pc	1928.74	kPa	Joback Method
tb	804.47	K	Joback Method
tc	1040.15	K	Joback Method
tf	466.00	K	Joback Method
vc	0.885	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	657.13	J/mol×K	804.47	Joback Method
cpg	721.51	J/mol×K	1000.87	Joback Method

cpg	710.69	J/mol×K	961.59	Joback Method
cpg	698.91	J/mol×K	922.31	Joback Method
cpg	686.10	J/mol×K	883.03	Joback Method
cpg	672.20	J/mol×K	843.75	Joback Method
cpg	731.44	J/mol×K	1040.15	Joback Method
dvisc	0.0000503	Pa×s	804.47	Joback Method
dvisc	0.0000636	Pa×s	748.06	Joback Method
dvisc	0.0000836	Pa×s	691.65	Joback Method
dvisc	0.0001154	Pa×s	635.24	Joback Method
dvisc	0.0001695	Pa×s	578.82	Joback Method
dvisc	0.0002706	Pa×s	522.41	Joback Method
dvisc	0.0004836	Pa×s	466.00	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=C2051072&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

tb: Normal Boiling Point Temperature

tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume