

Benzoic acid, 3-methyl-, 3-ethylphenyl ester

Inchi:	InChI=1S/C16H16O2/c1-3-13-7-5-9-15(11-13)18-16(17)14-8-4-6-12(2)10-14/h4-11H,3H2
InchiKey:	IDBWEZVXLJLXGY-UHFFFAOYSA-N
Formula:	C16H16O2
SMILES:	CCc1cccc(OC(=O)c2cccc(C)c2)c1
Mol. weight [g/mol]:	240.30

Physical Properties

Property code	Value	Unit	Source
gf	55.48	kJ/mol	Joback Method
hf	-168.25	kJ/mol	Joback Method
hfus	27.29	kJ/mol	Joback Method
hvap	66.24	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	3.777		Crippen Method
mcvol	196.220	ml/mol	McGowan Method
pc	2320.31	kPa	Joback Method
rinpola	2038.00		NIST Webbook
tb	705.09	K	Joback Method
tc	939.69	K	Joback Method
tf	420.12	K	Joback Method
vc	0.740	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	517.05	J/molxK	705.09	Joback Method
cpg	584.75	J/molxK	900.59	Joback Method
cpg	573.40	J/molxK	861.49	Joback Method
cpg	560.99	J/molxK	822.39	Joback Method
cpg	547.49	J/molxK	783.29	Joback Method
cpg	532.86	J/molxK	744.19	Joback Method
cpg	595.10	J/molxK	939.69	Joback Method
dvisc	0.0001219	Paxs	705.09	Joback Method
dvisc	0.0001519	Paxs	657.59	Joback Method

dvisc	0.0001959	Paxs	610.10	Joback Method
dvisc	0.0002638	Paxs	562.61	Joback Method
dvisc	0.0003752	Paxs	515.11	Joback Method
dvisc	0.0005733	Paxs	467.62	Joback Method
dvisc	0.0009640	Paxs	420.12	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U355712&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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