

1-(2,4,5-Trimethoxyphenyl)propan-2-one

InChI: InChI=1S/C12H16O4/c1-8(13)5-9-6-11(15-3)12(16-4)7-10(9)14-2/h6-7H,5H2,1-4H3

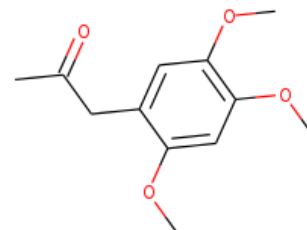
InChI Key: AQZHZZTUUVYQMIN-UHFFFAOYSA-N

Formula: C12H16O4

SMILES: COc1cc(OC)c(OC)cc1CC(C)=O

Molecular Weight: 224.25

CAS: 2020-90-8



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-310.24	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-598.13	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	24.87	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	60.54	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	1.84		Crippen Method
P_c	2329.27	kPa	Joback Method
T_{boil}	636.71	K	Joback Method
T_c	841.45	K	Joback Method
T_{fus}	405.60	K	Joback Method
V_c	0.66	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	443.68	J/mol×K	636.71	Joback Method
η	0.00	Paxs	636.71	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H16O4/c1-8\(13\)5-9-6-11\(15-3\)12\(16-4\)7-10\(9\)14-2/h6-7H,5H2,1-4H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H16O4/c1-8(13)5-9-6-11(15-3)12(16-4)7-10(9)14-2/h6-7H,5H2,1-4H3)

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

$C_{p, gas}$: Ideal gas heat capacity (J/mol×K).

η : Dynamic viscosity (Pa×s).

$\Delta_f G^\circ$: Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$: Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$: Octanol/Water partition coefficient .

P_c : Critical Pressure (kPa).

T_{boil} : Normal Boiling Point Temperature (K).

T_c : Critical Temperature (K).

T_{fus} : Normal melting (fusion) point (K).

V_c : Critical Volume (m³/kg-mol).

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