No.	Molecular formula, name and pK value(s)	T(°C)	Remarks	Method	Assessment	Ref
2004	CH_4O Methanol					
	15.5	25		C3	Uncert.	B8
	15.09	25		KIN	Uncert.	M126
2005	CH_4O_2 Methyl hydroperoxide					
	11.5	20		05	Uncert.	E27
2006	CH_4S Methanethiol					
	10.33	25	1% ethanol, gas solubility method		Uncert.	K57
2007	CHO_6N_3 Methane, trinitro-					
	0.14	20	In aqueous $HClO_4$, H_o scale	06	Uncert.	T58a
	0.06	25.5	Mixed constant	05	Uncert.	H5
	0.05	9.6				
	0.23	5	In aqueous HCl, H_o scale	06	Uncert.	N39,S82
	0.17	20				
	0.11	40				
	0.02	60				
			Thermodynamic quantities are derived from the results			

2008 $CH_2O_4N_2$ Methane, dinitro-

2008	$CH_2O_4N_2$	Methane, dinitro-					
		3.63	20		05	Approx.	T58a
		3.72	5		05	Approx.	N39
		3.60	20				
		3.51	40				
		3.43	60				
				Thermodynamic quantities are derived from the results			
		3.57	25	I = 0.06	05	Approx.	A7
2009	CH_3O_2N	Methane, nitro-					
		10.45	10	c = 0.005-0.017, mixed constant	E3bg	Approx.	T67
		10.33	18				
		10.21	25				
		10.24	25		E3bg	Approx.	W22
2010	CH_3O_2N	Methanohydroxamic acid (Formohydroxamic acid)					
		8.65		I = 0.2(NaCl)	E3bg	Uncert.	C72
2011	CH_3NS_2	Methanedithioic acid, amino- (Dithiocarbamic acid)					
		2.95	25	c = 0.002-0.01	C2	Approx.	G4
2012	CH_4O_2S	Methanesulfinic acid, hydroxy-					
		1.65	20	c = 0.1, mixed constant	E3bg	Approx.	R54